

Trying 3106016892...Open

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LOGINID:sssptal600rxa
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Dec 17	The CA Lexicon available in the CAPLUS and CA files
NEWS 3	Feb 06	Engineering Information Encompass files have new names
NEWS 4	Feb 16	TOXLINE no longer being updated
NEWS 5	Apr 23	Search Derwent WPINDEX by chemical structure
NEWS 6	Apr 23	PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS 7	May 07	DGENE Reload
NEWS 8	Jun 20	Published patent applications (A1) are now in USPATFULL
NEWS 9	JUL 13	New SDI alert frequency now available in Derwent's DWPI and DPCI
NEWS 10	Aug 23	In-process records and more frequent updates now in MEDLINE
NEWS 11	Aug 23	PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
NEWS 12	Aug 23	Adis Newsletters (ADISNEWS) now available on STN
NEWS 13	Sep 17	IMSworld Pharmaceutical Company Directory name change to PHARMASEARCH
NEWS 14	Oct 09	Korean abstracts now included in Derwent World Patents Index
NEWS 15	Oct 09	Number of Derwent World Patents Index updates increased
NEWS 16	Oct 15	Calculated properties now in the REGISTRY/ZREGISTRY File
NEWS 17	Oct 22	Over 1 million reactions added to CASREACT
NEWS 18	Oct 22	DGENE GETSIM has been improved
NEWS 19	Oct 29	AAASD no longer available
NEWS 20	Nov 19	New Search Capabilities USPATFULL and USPAT2
NEWS 21	Nov 19	TOXCENTER(SM) - new toxicology file now available on STN
NEWS 22	Nov 29	COPPERLIT now available on STN
NEWS 23	Nov 29	DWPI revisions to NTIS and US Provisional Numbers
NEWS 24	Nov 30	Files VETU and VETB to have open access
NEWS 25	Dec 10	WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
NEWS 26	Dec 10	DGENE BLAST Homology Search
NEWS EXPRESS	August 15	CURRENT WINDOWS VERSION IS V6.0c, CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP), AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
NEWS HOURS		STN Operating Hours Plus Help Desk Availability
NEWS INTER		General Internet Information
NEWS LOGIN		Welcome Banner and News Items
NEWS PHONE		Direct Dial and Telecommunication Network Access to STN
NEWS WWW		CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 07:46:07 ON 17 DEC 2001

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.15

0.15

FILE 'REGISTRY' ENTERED AT 07:46:15 ON 17 DEC 2001

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STRUCTURE FILE UPDATES: 16 DEC 2001 HIGHEST RN 375793-75-2

DICTIONARY FILE UPDATES: 16 DEC 2001 HIGHEST RN 375793-75-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

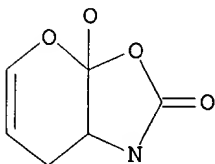
Uploading 09988042.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 07:46:33 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED

1 ITERATIONS

0 ANSWERS

Examiner Anderson 703-605-1157

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1 TO 80
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 07:46:38 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5 TO ITERATE

100.0% PROCESSED 5 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

=>

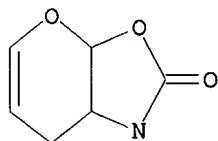
Uploading 09988042.str

L4 STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l4

SAMPLE SEARCH INITIATED 07:47:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 17 TO ITERATE

100.0% PROCESSED 17 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 93 TO 587
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L4

=> s l4 full

FULL SEARCH INITIATED 07:47:44 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 411 TO ITERATE

100.0% PROCESSED 411 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L6 0 SEA SSS FUL L4

=>

Uploading 09988042.str

L7 STRUCTURE UPLOADED

=> s 17

SAMPLE SEARCH INITIATED 07:48:12 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 49 TO ITERATE

100.0% PROCESSED 49 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 561 TO 1399
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=> s 17 full

FULL SEARCH INITIATED 07:48:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 893 TO ITERATE

100.0% PROCESSED 893 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.02

L9 1 SEA SSS FUL L7

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	400.99	401.14

FILE 'CAPLUS' ENTERED AT 07:48:26 ON 17 DEC 2001
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FILE COVERS 1947 - 17 Dec 2001 VOL 135 ISS 26
FILE LAST UPDATED: 16 Dec 2001 (20011216/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Caplus now provides online access to patents and literature covered in CA from 1947 to the present. On April 22, 2001, bibliographic

Examiner Anderson 703-605-1157

information and abstracts were added for over 2.2 million references published in CA from 1947 to 1966.

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=> s 19

L10 1 L9

=> d ibib abs hitstr

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1990:77008 CAPLUS

DOCUMENT NUMBER: 112:77008

TITLE: Cycloadditions to the double bonds of methyl (R)-2-tert-butyl-.DELTA.4-1,3-oxazolin-3-carboxylates

AUTHOR(S): Seebach, D.; Stucky, G.; Pfammatter, E.

CORPORATE SOURCE: Inst. Org. Chem., Eidg. Tech. Hochsch., Zurich, CH-8092, Switz.

SOURCE: Chem. Ber. (1989), 122(12), 2377-89

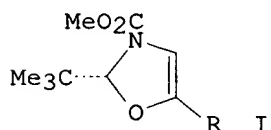
CODEN: CHBEAM; ISSN: 0009-2940

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 112:77008

GI



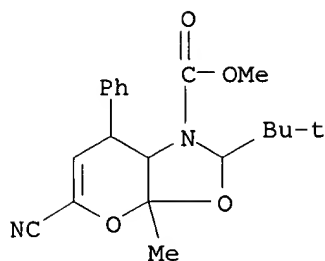
AB The title compds. I (R = H, Me, CH:CH2) reacted with peracids, cyclopropanation reagents, (NC)2C=C(CN)2, OsO4 and dienophiles. The double bond of the oxazolines react in a highly diastereoselective manner, with the attack preferred from the face of the five-membered ring remote from the tert-Bu group. Some of the products obtained undergo or are subjected to further reactions. Stereochem. and synthetic aspects of the reactions are discussed.

IT 122877-23-0P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

RN 122877-23-0 CAPLUS

CN 7H-Pyrano[3,2-d]oxazole-1(2H)-carboxylic acid, 5-cyano-2-(1,1-dimethylethyl)-3a,7a-dihydro-3a-methyl-7-phenyl-, methyl ester (9CI) (CA INDEX NAME)



=>

Uploading 09988042.str

L11 STRUCTURE UPLOADED

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
5.17	406.31

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.59	-0.59

CA SUBSCRIBER PRICE

FILE 'REGISTRY' ENTERED AT 07:50:13 ON 17 DEC 2001

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STRUCTURE FILE UPDATES: 16 DEC 2001 HIGHEST RN 375793-75-2

DICTIONARY FILE UPDATES: 16 DEC 2001 HIGHEST RN 375793-75-2

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

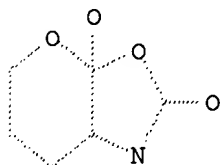
Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d

L11 HAS NO ANSWERS

L11 STR



Examiner Anderson 703-605-1157

Structure attributes must be viewed using STN Express query preparation.

=> s l11

SAMPLE SEARCH INITIATED 07:50:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1 TO 80
PROJECTED ANSWERS: 0 TO 0

L12 0 SEA SSS SAM L11

=> s l11 full

FULL SEARCH INITIATED 07:50:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5 TO ITERATE

100.0% PROCESSED 5 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L13 0 SEA SSS FUL L11

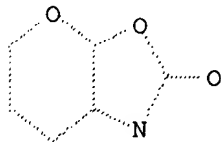
=>

Uploading 09988042.str

L14 STRUCTURE UPLOADED

=> d

L14 HAS NO ANSWERS
L14 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l14

SAMPLE SEARCH INITIATED 07:51:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 17 TO ITERATE

100.0% PROCESSED 17 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 93 TO 587
PROJECTED ANSWERS: 6 TO 266

Examiner Anderson 703-605-1157

L15 6 SEA SSS SAM L14

=> s l14 full

FULL SEARCH INITIATED 07:51:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 411 TO ITERATE

100.0% PROCESSED 411 ITERATIONS
SEARCH TIME: 00.00.01

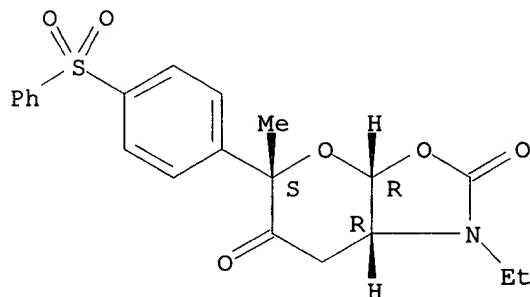
179 ANSWERS

L16 179 SEA SSS FUL L14

=> d scan

L16 179 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-ethyl-5-methyl-5-[4-(phenylsulfonyl)phenyl]-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI)
MF C21 H21 N O6 S

Relative stereochemistry.

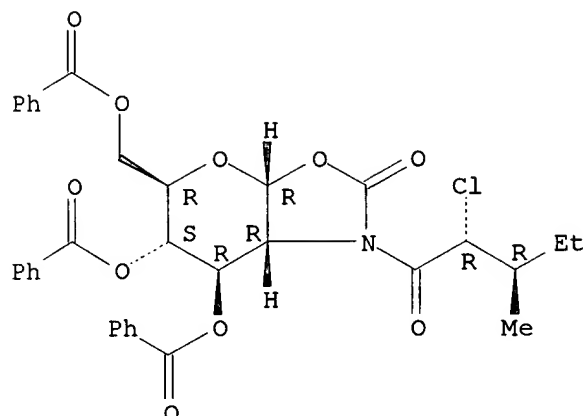


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L16 179 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(benzoyloxy)-5-
[(benzoyloxy)methyl]-1-(2-chloro-3-methyl-1-oxopentyl)tetrahydro-,
[3aR-[1(2R*,3R*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI)
MF C34 H32 Cl N O10

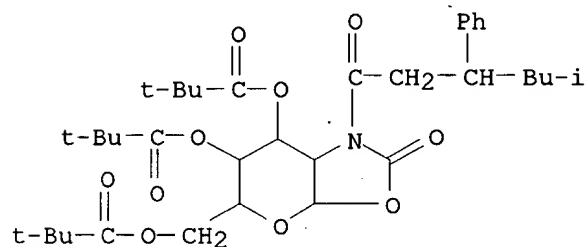
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L16 179 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(5-methyl-1-oxo-3-phenylhexyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester (9CI)
 MF C35 H51 N O10



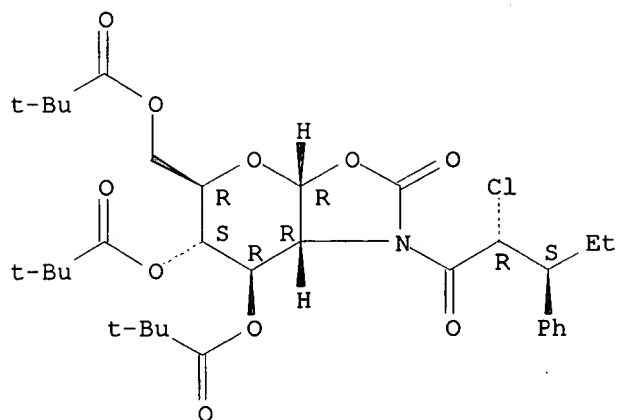
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L16 179 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Propanoic acid, 2,2-dimethyl-, 1-(2-chloro-1-oxo-3-phenylpentyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(2R*,3S*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI)
 MF C33 H46 Cl N O10

Absolute stereochemistry.

Examiner Anderson 703-605-1157



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
267.43	673.74

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-0.59

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FILE 'CAPLUS' ENTERED AT 07:51:43 ON 17 DEC 2001

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FILE COVERS 1947 - 17 Dec 2001 VOL 135 ISS 26

FILE LAST UPDATED: 16 Dec 2001 (20011216/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAplus now provides online access to patents and literature covered in CA from 1947 to the present. On April 22, 2001, bibliographic

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information and abstracts were added for over 2.2 million references published in CA from 1947 to 1966.

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=> s l16

L17 24 L16

=> d ibib abs hitstr 1-24

L17 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:514924 \CAPLUS

DOCUMENT NUMBER: 133:238211

TITLE: Novel IBX-mediated processes for the synthesis of amino sugars and libraries thereof

AUTHOR(S): Nicolaou, K. C.; Baran, Phil S.; Zhong, Yong-Li; Vega, Juan A.

CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA

SOURCE: Angew. Chem., Int. Ed. (2000), 39(14), 2525-2529
CODEN: ACIEF5; ISSN: 1433-7851

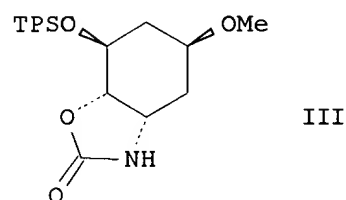
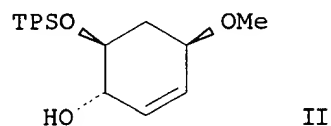
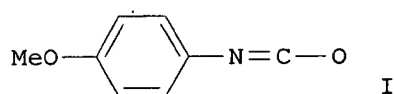
PUBLISHER: Wiley-VCH Verlag GmbH

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 133:238211

GI



AB The cyclization of N-arylcarbamates, eg. I, onto olefins, eg. II, using O-iodoxybenzoic acid/1-hydroxy-1,2-benziodoxol-3-(1H)-one 1-oxide (IBX) is a synthetic protocol for stereoselective amino sugars, eg. III, for compd. libraries and biol. screening.

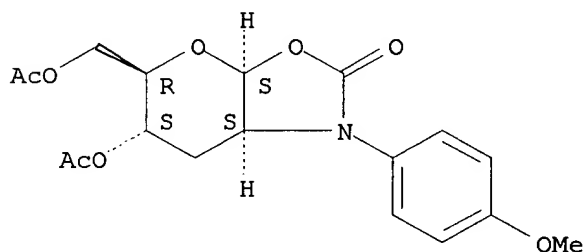
IT **293293-97-7P 293294-06-1P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(IBX cyclization for the synthesis of amino sugar libraries from olefins and arylcarbamates)

RN 293293-97-7 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6-(acetyloxy)-5-
[(acetyloxy)methyl]tetrahydro-1-(4-methoxyphenyl)-, (3aS,5R,6S,7aS)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

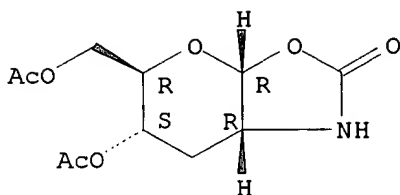


RN 293294-06-1 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6-(acetyloxy)-5-
[(acetyloxy)methyl]tetrahydro-, (3aR,5R,6S,7aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Examiner Anderson 703-605-1157



IT 293293-98-8P

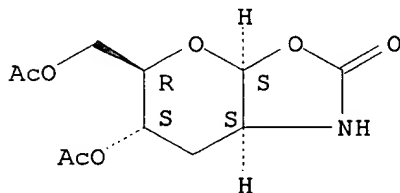
RL: SPN (Synthetic preparation); PREP (Preparation)

(IBX cyclization for the synthesis of amino sugar libraries from olefins and arylcarbamates)

RN 293293-98-8 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6-(acetyloxy)-5-[(acetyloxy)methyl]tetrahydro-, (3aS,5R,6S,7aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

70

REFERENCE(S):

- (1) Ahmad, H; Carbohydr Res 1981, V93, P288 CAPLUS
- (9) Baer, H; Carbohydr Res 1984, V134, P49 CAPLUS
- (11) Brakta, M; J Org Chem 1993, V58, P2992 CAPLUS
- (12) Brimacombe, J; Carbohydr Res 1982, V110, P207 CAPLUS
- (13) Chatterjee, M; J Am Chem Soc 1996, V118, P1938 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:593534 CAPLUS

DOCUMENT NUMBER: 129:313198

TITLE: Degradation of derivatives of N-acetyl-D-glucosamine by Rhodococcus rhodochrous IFO 15564: substrate specificity and its application to the synthesis of allyl .alpha.-N-acetyl-D-glucosaminide

AUTHOR(S): Kuboki, Atsuhito; Komiya, Ryosuke; Sekiguchi, Takahiro; Katsuragi, Kenji; Sugai, Takeshi; Ohta, Hiromichi

CORPORATE SOURCE: Department of Chemistry, Keio University, Yokohama, 223-8522, Japan

SOURCE: Biosci., Biotechnol., Biochem. (1998), 62(8), 1581-1585

CODEN: BBBIEJ; ISSN: 0916-8451

PUBLISHER: Japan Society for Bioscience, Biotechnology, and Agrochemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

Examiner Anderson 703-605-1157

AB The substrate specificity was studied for the metabolic degrdn. of N-acetyl-D-glucosamine (GlcNAc) derivs. by *Rhodococcus rhodochrous* IFO 15564 which possesses N-acetyl-D-glucosamine deacetylase as a key-step enzyme. This microorganism degraded a wide range of substrates with modified N-acyl groups. The metabolizing activity of this strain was low toward substrates substituted at the 1,3,4,6-positions of GlcNAc, and GlcNAc itself was suggested to be metabolized via an open-chain aldehyde form. Based on these results, a simplified procedure for the isolation of allyl .alpha.-N-acetyl-D-glucosaminide from an .alpha.,.beta.-anomeric mixt. was developed by selectively hydrolyzing the .beta.-anomer with Jackbean .beta.-N-acetyl-D-glucosaminidase and subsequently degrading the resulting N-acetyl-D-glucosamine in the reaction mixt. with this microorganism.

IT 7103-39-1

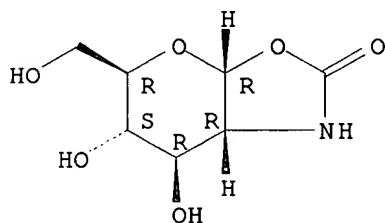
RL: BPR (Biological process); PRP (Properties); BIOL (Biological study); PROC (Process)

(substrate specificity in the degrdn. of acetylglucosamine derivs. by *Rhodococcus rhodochrous* IFO 15564 and its application to the synthesis of allyl acetylglucosaminide)

RN 7103-39-1 CAPLUS

CN .alpha.-D-Glucopyranose, 2-(carboxyamino)-2-deoxy-, intramol. 2,1-ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L17 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1997:88821 CAPLUS

DOCUMENT NUMBER: 126:199307

TITLE: .beta.-Branched .alpha.-Halo Carboxylic Acid Derivatives via Stereoselective 1,4-Addition of Dialkylaluminum Chlorides to .alpha.,.beta.-Unsaturated N-Acyloxazolidinones

AUTHOR(S): Rueck-Braun, Karola; Stamm, Armin; Engel, Stefan; Kunz, Horst

CORPORATE SOURCE: Institut fuer Organische Chemie, Johannes Gutenberg-Universitaet Mainz, Mainz, D-55099, Germany

SOURCE: J. Org. Chem. (1997), 62(4), 967-975

CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The stereoselective synthesis of .beta.-branched .alpha.-halo carboxylic acids contg. two newly formed chiral centers is accomplished by a reaction cascade consisting of the 1,4-addn. of dialkylaluminum chlorides to .alpha.,.beta.-unsatd. N-acyloxazolidinones and subsequent reaction of the intermediate aluminum enolates with N-halosuccinimide. The most efficient stereocontrol in these tandem processes has been achieved with

oxazolidinones derived from glucosamine. Not only aryl-substituted but also purely aliph. .beta.-branched .alpha.-halo carboxylic acids can be stereoselectively synthesized by this method. However, the reactions of .beta.-aryl .alpha.,.beta.-unsatd. N-acyloxazolidinones show the highest diastereoselectivity and give one out of four possible diastereomers in high excess.

IT 149198-98-1

RL: RCT (Reactant)

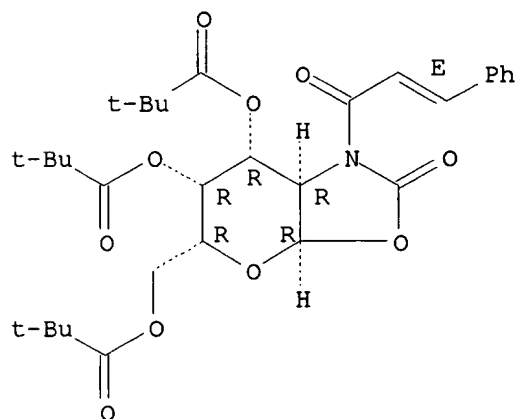
(.beta.-branched .alpha.-halo carboxylic acid derivs. via stereoselective 1,4-addn. of dialkylaluminum chlorides to .alpha.,.beta.-unsatd. N-acyloxazolidinones)

RN 149198-98-1 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenyl-2-propenyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(E),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.



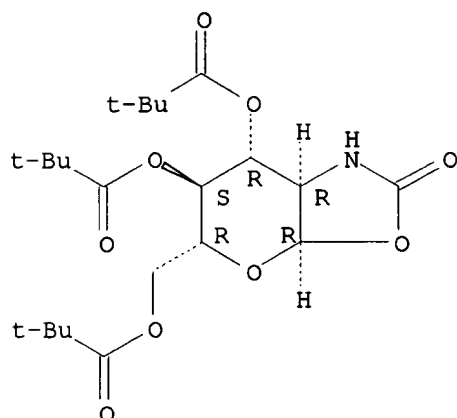
IT 149198-96-9P 149199-04-2P 187845-09-6P
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187845-24-5P 187845-25-6P 187845-26-7P
187845-29-0P 187845-31-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(.beta.-branched .alpha.-halo carboxylic acid derivs. via stereoselective 1,4-addn. of dialkylaluminum chlorides to .alpha.,.beta.-unsatd. N-acyloxazolidinones)

RN 149198-96-9 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-(3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

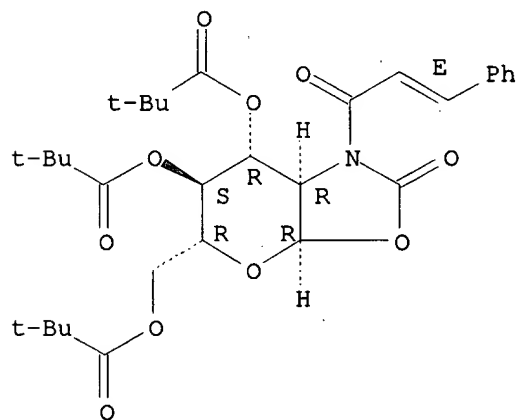
Absolute stereochemistry.



RN 149199-04-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenyl-2-propenyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(E),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

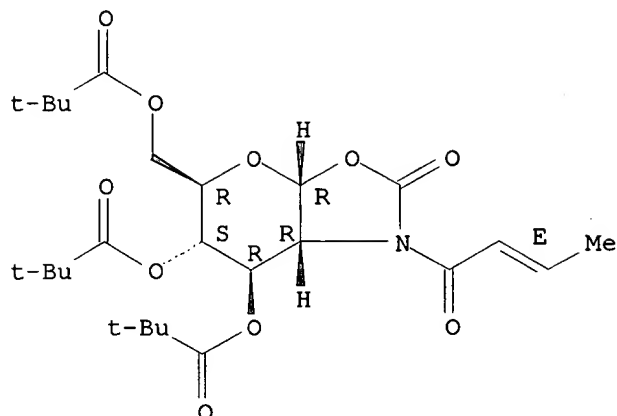
Absolute stereochemistry.
Double bond geometry as shown.



RN 187845-09-6 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-2-butenyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(E),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

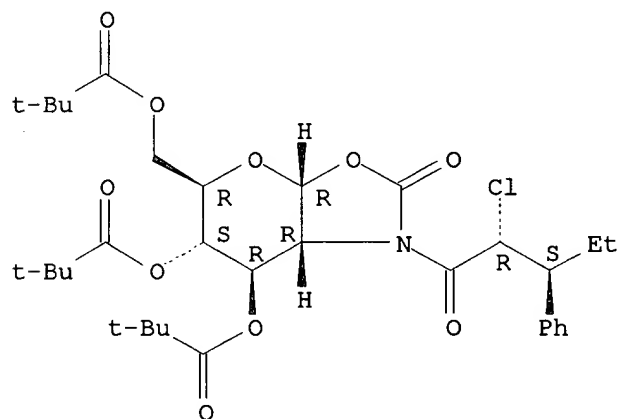
Absolute stereochemistry.
Double bond geometry as shown.



RN 187845-10-9 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-(2-chloro-1-oxo-3-phenylpentyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(2R*,3S*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

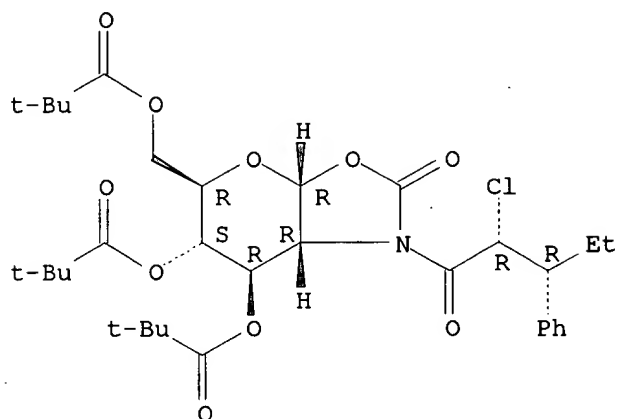
Absolute stereochemistry.



RN 187845-11-0 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-(2-chloro-1-oxo-3-phenylpentyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(2R*,3R*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

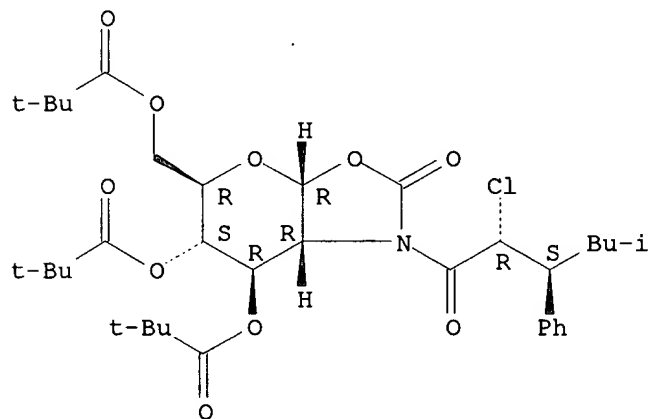
Absolute stereochemistry.



RN 187845-13-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-(2-chloro-5-methyl-1-oxo-3-phenylhexyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(2R*,3S*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

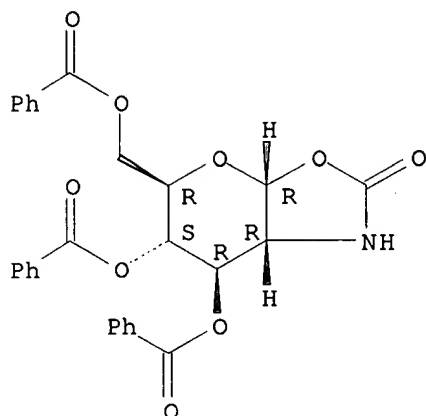
Absolute stereochemistry.



RN 187845-20-1 CAPLUS

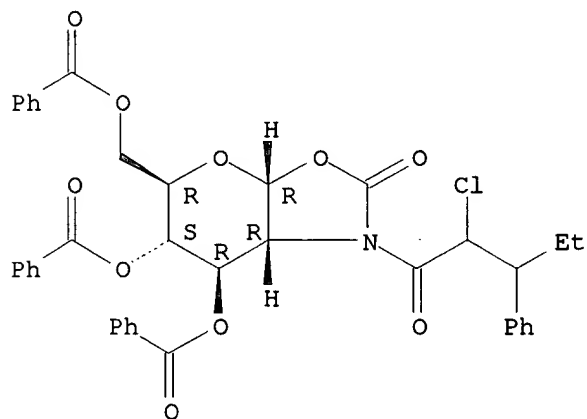
CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(benzoyloxy)-5-[(benzoyloxy)methyl]tetrahydro-, [3aR-(3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



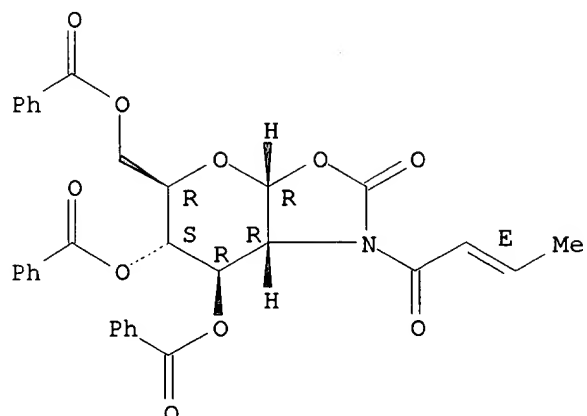
RN 187845-22-3 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(benzoyloxy)-5-
 [(benzoyloxy)methyl]-1-(2-chloro-1-oxo-3-phenylpentyl)tetrahydro-,
 [3aR-(3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.)]-[partial]- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



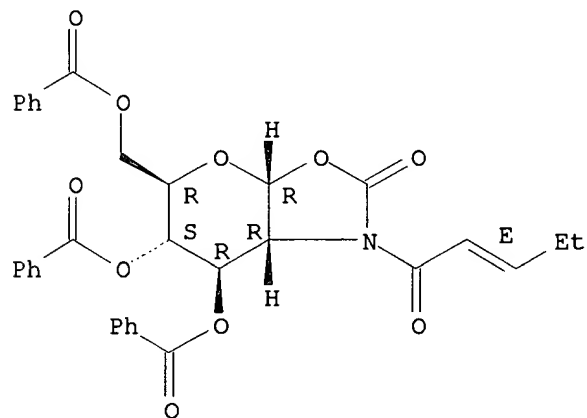
RN 187845-23-4 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(benzoyloxy)-5-
 [(benzoyloxy)methyl]tetrahydro-1-(1-oxo-2-butenyl)-, [3aR-
 [1(E),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



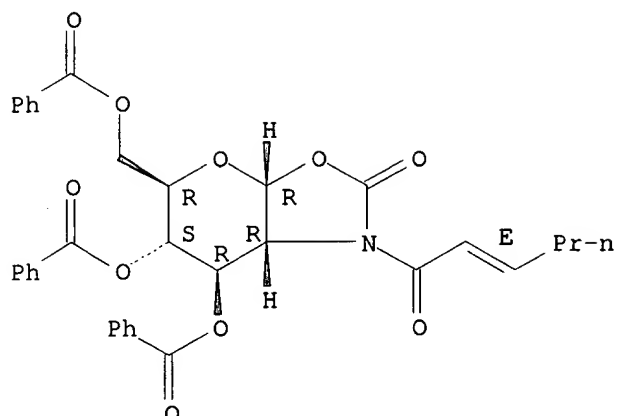
RN 187845-24-5 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(benzoyloxy)-5-
 [(benzoyloxy)methyl]tetrahydro-1-(1-oxo-2-pentenyl)-, [3aR-
 [1(E),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



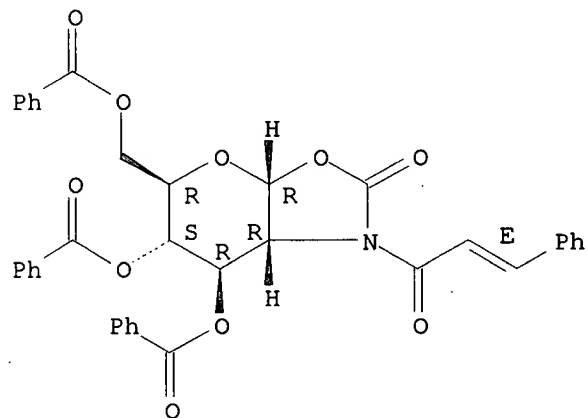
RN 187845-25-6 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(benzoyloxy)-5-
 [(benzoyloxy)methyl]tetrahydro-1-(1-oxo-2-hexenyl)-, [3aR-
 [1(E),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



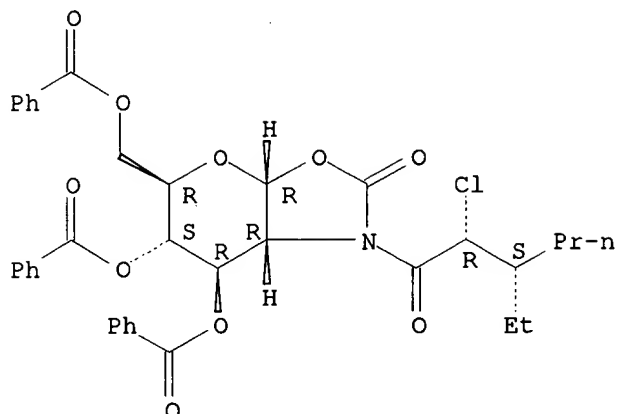
RN 187845-26-7 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(benzoyloxy)-5-
 [(benzoyloxy)methyl]tetrahydro-1-(1-oxo-3-phenyl-2-propenyl)-,
 [3aR-[1(E),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



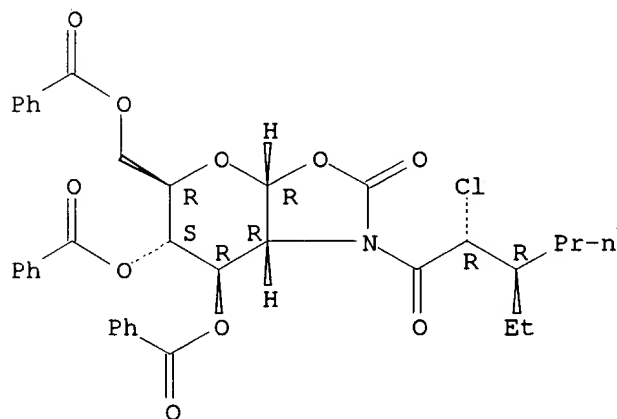
RN 187845-29-0 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(benzoyloxy)-5-
 [(benzoyloxy)methyl]-1-(2-chloro-3-ethyl-1-oxohexyl)tetrahydro-,
 [3aR-[1(2R*,3S*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



RN 187845-31-4 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(benzoyloxy)-5-
 [(benzoyloxy)methyl]-1-(2-chloro-3-ethyl-1-oxohexyl)tetrahydro-,
 [3aR-[1(2R*,3R*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

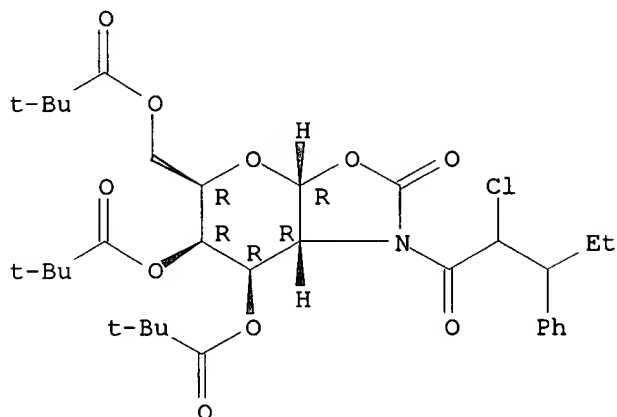


IT 187845-07-4P 187845-08-5P 187845-12-1P
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 187845-17-6P 187845-21-2P 187845-27-8P
 187845-28-9P 187845-30-3P 187845-32-5P
 187845-33-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (.beta.-branched .alpha.-halo carboxylic acid derivs. via
 stereoselective 1,4-addn. of dialkylaluminum chlorides to
 .alpha.,.beta.-unsatd. N-acyloxazolidinones)

RN 187845-07-4 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 1-(2-chloro-1-oxo-3-phenylpentyl)-5-[(2,2-
 dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-
 diyl ester, [3aR-(3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.)]-
 [partial]- (9CI) (CA INDEX NAME)

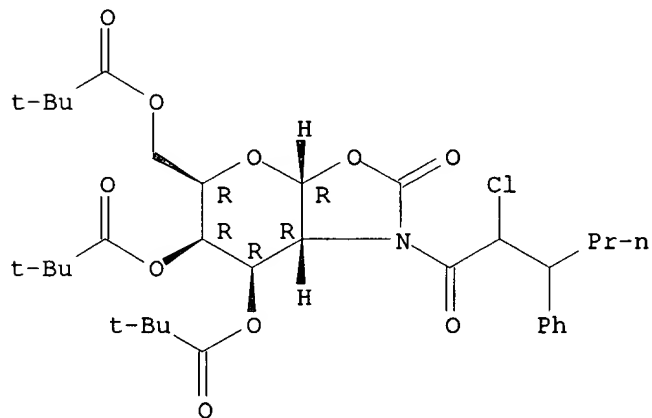
Absolute stereochemistry.



RN 187845-08-5 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-(2-chloro-1-oxo-3-phenylhexyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-(3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.)]-[partial]- (9CI) (CA INDEX NAME)

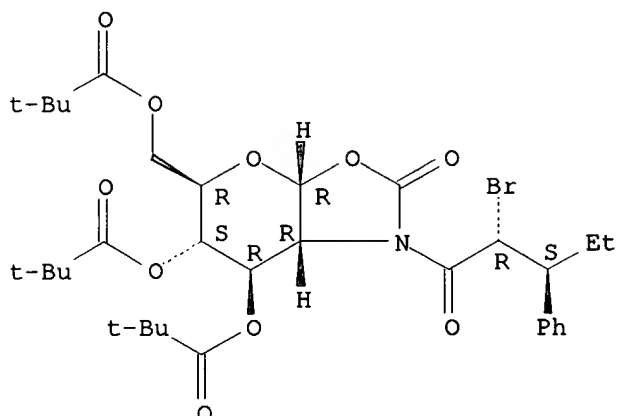
Absolute stereochemistry.



RN 187845-12-1 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-(2-bromo-1-oxo-3-phenylpentyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(2R*,3S*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

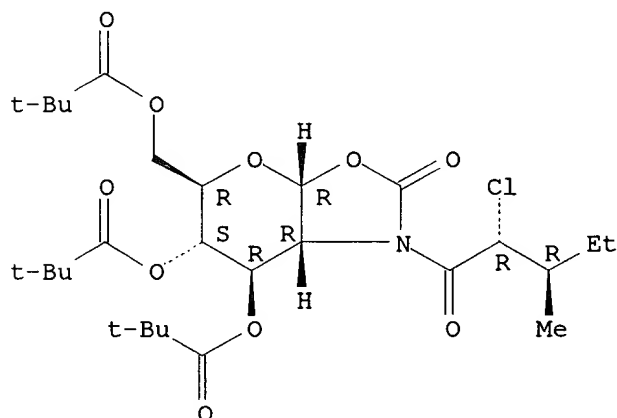
Absolute stereochemistry.



RN 187845-14-3 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-(2-chloro-3-methyl-1-oxopentyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(2R*,3R*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

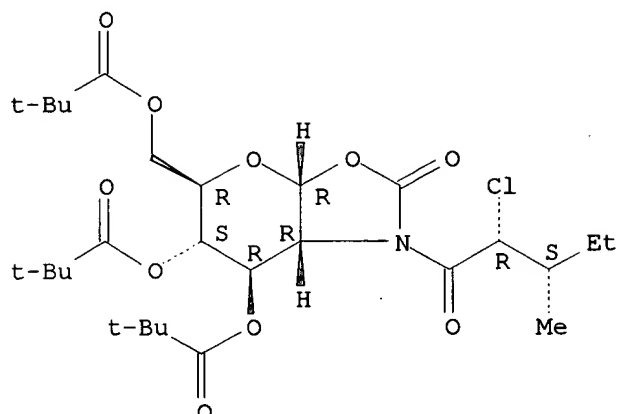
Absolute stereochemistry.



RN 187845-15-4 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-(2-chloro-3-methyl-1-oxopentyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(2R*,3S*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

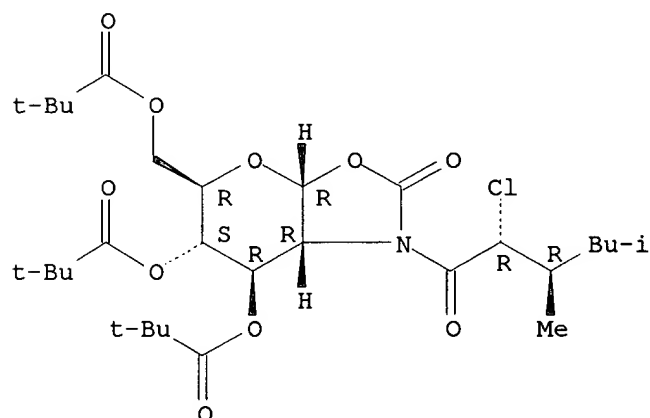
Absolute stereochemistry.



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CN Propanoic acid, 2,2-dimethyl-, 1-(2-chloro-3,5-dimethyl-1-oxohexyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(2R*,3R*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

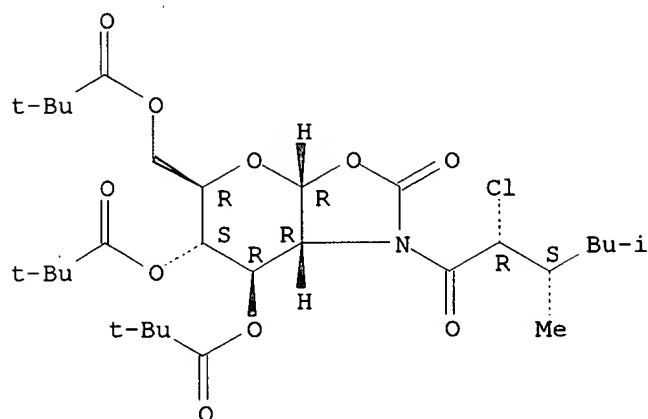
Absolute stereochemistry.



RN 187845-17-6 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-(2-chloro-3,5-dimethyl-1-oxohexyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(2R*,3S*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

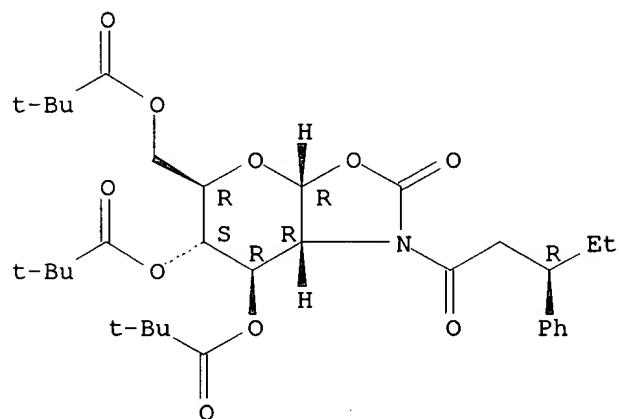
Absolute stereochemistry.



RN 187845-21-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylpentyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

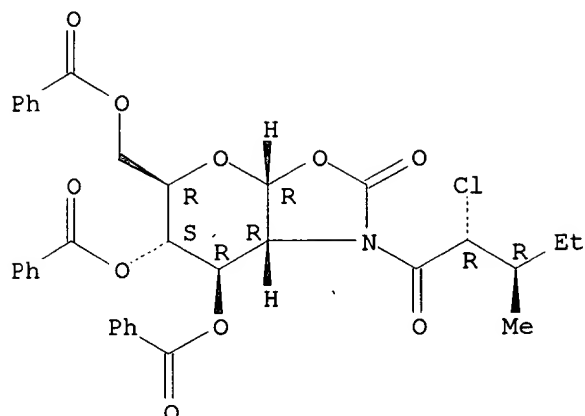
Absolute stereochemistry.



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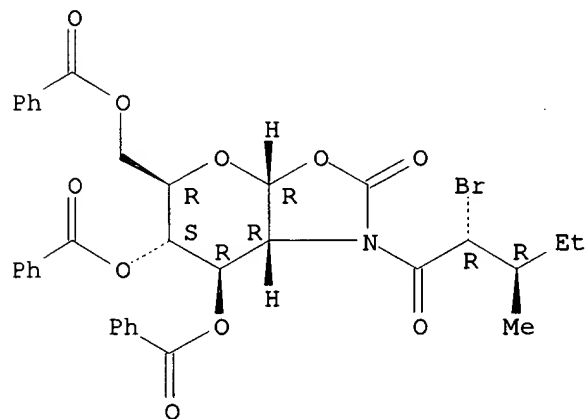
CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(benzoyloxy)-5-[(benzoyloxy)methyl]-1-(2-chloro-3-methyl-1-oxopentyl)tetrahydro-, [3aR-[1(2R*,3R*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



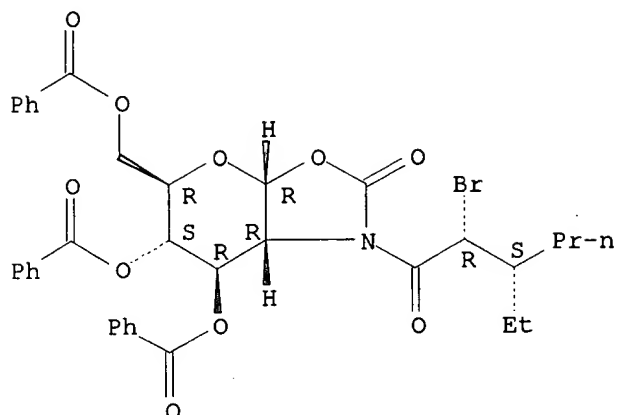
RN 187845-28-9 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(benzoyloxy)-5-
 [(benzoyloxy)methyl]-1-(2-bromo-3-methyl-1-oxopentyl)tetrahydro-,
 [3aR-[1(2R*,3R*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



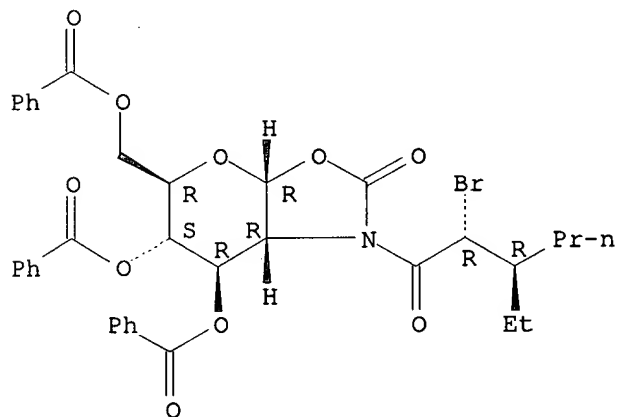
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 [(benzoyloxy)methyl]-1-(2-bromo-3-ethyl-1-oxohexyl)tetrahydro-,
 [3aR-[1(2R*,3S*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



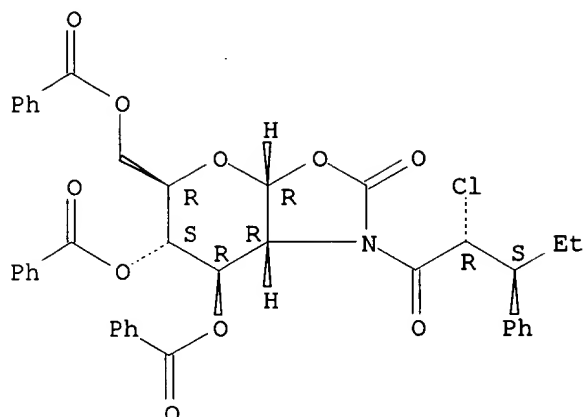
RN 187845-32-5 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(benzoyloxy)-5-
 [(benzoyloxy)methyl]-1-(2-bromo-3-ethyl-1-oxohexyl)tetrahydro-,
 [3aR-[1(2R*,3R*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



RN 187845-33-6 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(benzoyloxy)-5-
 [(benzoyloxy)methyl]-1-(2-chloro-1-oxo-3-phenylpentyl)tetrahydro-,
 [3aR-[1(2R*,3S*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



L17 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1997:2369 CAPLUS

DOCUMENT NUMBER: 126:31345

TITLE: Preparation of tetrahydropyrano[3,2-d]oxazolones as angiogenesis inhibitors

INVENTOR(S): Billington, David C.; Perron-sierra, Francoise; Atassi, Ghanem; Pierre, Alain; Burbridge, Michael; Guilbaud, Nicolas

PATENT ASSIGNEE(S): Adir Et Compagnie, Fr.; Billington, David C.; Perron-Sierra; Atassi, Ghanem; Pierre, Alain; Burbridge, Michael; Guilbaud, Nicolas

SOURCE: PCT Int. Appl., 60 pp.

CODEN: PIXXD2

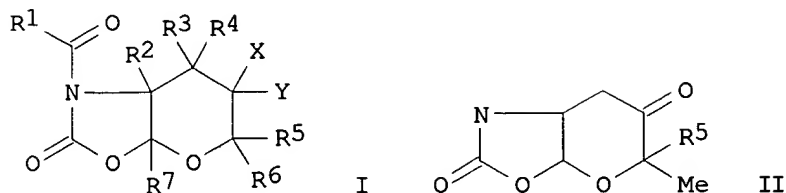
DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9633999	A1	19961031	WO 1996-FR629	19960424
W: AU, CA, CN, JP, NO, NZ, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
FR 2733499	A1	19961031	FR 1995-5051	19950427
FR 2733499	B1	19970530		
CA 2219571	AA	19961031	CA 1996-2219571	19960424
AU 9657664	A1	19961118	AU 1996-57664	19960424
EP 822936	A1	19980211	EP 1996-914240	19960424
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
CN 1185156	A	19980617	CN 1996-194155	19960424
JP 11504029	T2	19990406	JP 1996-532224	19960424
NO 9704870	A	19971229	NO 1997-4870	19971022
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OTHER SOURCE(S):			MARPAT 126:31345	
GI				



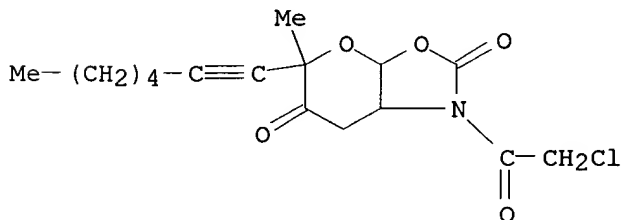
AB Title compds. [I; R1 = R, NHCOR; R = (di)(alkyl)amino, alkyl, alkoxy, etc.; R2 = H or alkyl; R3 = H, alkyl, alkoxy, aryl, etc.; R4 = H; R5 = H, alkyl, (hetero)aryl, etc.; R6 = H, alkyl, alkoxycarbonyl, etc.; R7 = H, alkyl, (CH₂)_nO₂CR₈, etc.; R8 = H, alkyl, aryl(alkyl), etc.; X = H, OH, alkoxy, NH₂, etc. and Y = H; XY = CH₂, O, NOH, etc.; R₄Y, R₅Y = bond; n = 1-4] were prepd. Thus, 2-acetylfuran was condensed with 1-heptyne and the product treated with NBS in aq. THF to give 2-(1-heptynyl)-2-methyl-3-oxodihydropyran-6-ol which was cyclocondensed with ClCH₂CONCO to give title compd. II (R₅ = 1-heptynyl). Data for biol activity of I were given.

IT 184421-59-8P 184421-60-1P 184421-61-2P
 184421-62-3P 184421-63-4P 184421-64-5P
 184421-65-6P 184421-66-7P 184421-67-8P
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 184421-71-4P 184421-72-5P 184421-73-6P
 184421-74-7P 184421-75-8P 184421-76-9P
 184421-77-0P 184421-78-1P 184421-79-2P
 184421-80-5P 184421-81-6P 184421-82-7P
 184421-83-8P 184421-84-9P 184421-85-0P
 184421-86-1P 184421-87-2P 184421-88-3P
 184421-89-4P 184421-90-7P 184421-91-8P
 184421-92-9P 184421-93-0P 184421-94-1P
 184421-95-2P 184421-96-3P 184421-97-4P
 184421-98-5P 184421-99-6P 184422-00-2P
 184422-01-3P 184422-02-4P 184422-03-5P
 184422-04-6P 184422-05-7P 184653-49-4P
 184653-50-7P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of tetrahydropyrano[3,2-d]oxazolones as angiogenesis inhibitors)

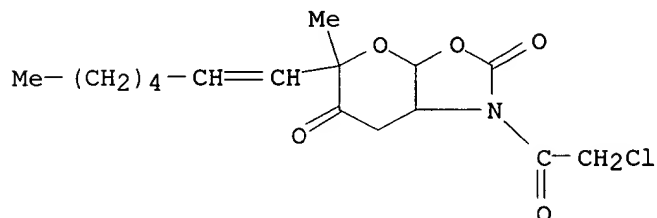
RN 184421-59-8 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl)-5-(1-heptynyl)dihydro-5-methyl- (9CI) (CA INDEX NAME)



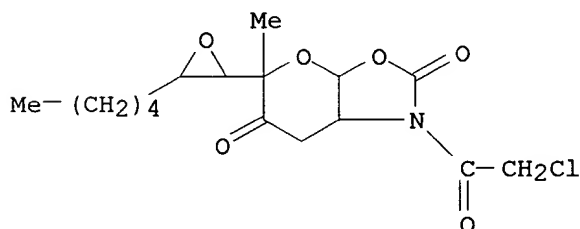
RN 184421-60-1 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl)-5-(1-heptenyl) dihydro-5-methyl- (9CI) (CA INDEX NAME)



RN 184421-61-2 CAPLUS

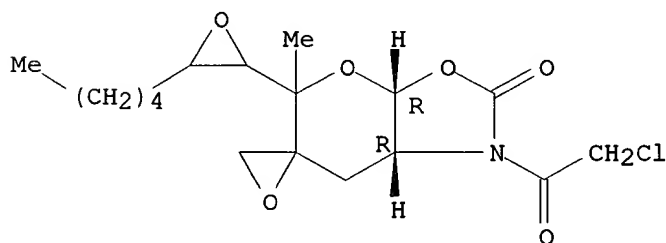
CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl) dihydro-5-methyl-5-(3-pentyloxiranyl)- (9CI) (CA INDEX NAME)



RN 184421-62-3 CAPLUS

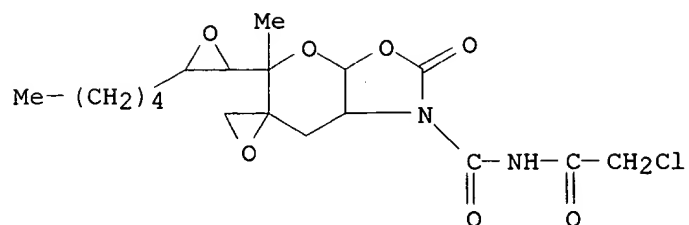
CN Spiro[oxirane-2,6'-(3'aH)-[5H]pyrano[3,2-d]oxazol]-2'(1'H)-one, 1'-(chloroacetyl) dihydro-5'-methyl-5'-(3-pentyloxiranyl)-, (3'aR,7'aR)-rel-[partial]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 184421-63-4 CAPLUS

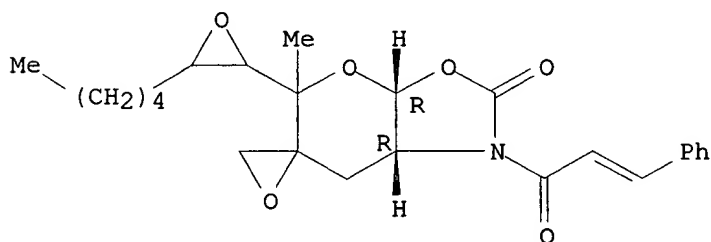
CN Spiro[oxirane-2,6'-(3'aH)-[5H]pyrano[3,2-d]oxazole]-1'(2'H)-carboxamide, N-(chloroacetyl) dihydro-5'-methyl-2'-oxo-5'-(3-pentyloxiranyl)- (9CI) (CA INDEX NAME)



RN 184421-64-5 CAPLUS

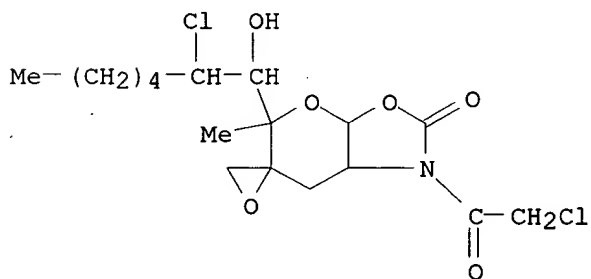
CN Spiro[oxirane-2,6'-(3'aH)-[5H]pyrano[3,2-d]oxazol]-2'-(1'H)-one,
dihydro-5'-methyl-1'-(1-oxo-3-phenyl-2-propenyl)-5'-(3-pentyloxiranyl)-,
(3'aR,7'aR)-rel-[partial]- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



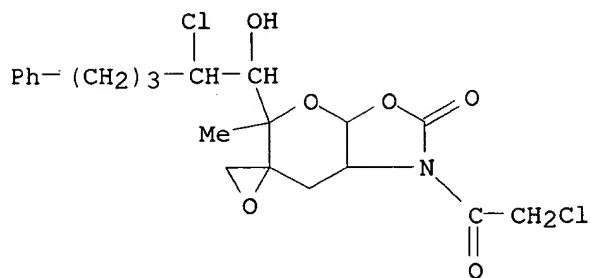
RN 184421-65-6 CAPLUS

CN Spiro[oxirane-2,6'-(3'aH)-[5H]pyrano[3,2-d]oxazol]-2'-(1'H)-one,
1'-(chloroacetyl)-5'-(2-chloro-1-hydroxyheptyl)dihydro-5'-methyl- (9CI)
(CA INDEX NAME)



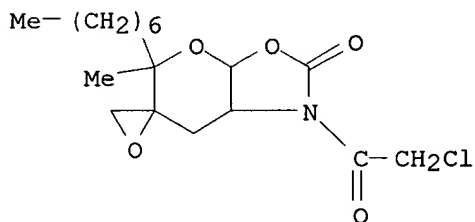
RN 184421-66-7 CAPLUS

CN Spiro[oxirane-2,6'-(3'aH)-[5H]pyrano[3,2-d]oxazol]-2'-(1'H)-one,
1'-(chloroacetyl)-5'-(2-chloro-1-hydroxy-5-phenylpentyl)dihydro-5'-methyl-
(9CI) (CA INDEX NAME)



RN 184421-67-8 CAPLUS

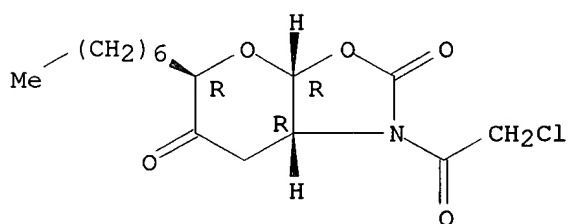
CN Spiro[oxirane-2,6'-(3'aH)-[5H]pyrano[3,2-d]oxazol]-2'-(1'H)-one,
1'-(chloroacetyl)-5'-heptyldihydro-5'-methyl- (9CI) (CA INDEX NAME)



RN 184421-68-9 CAPLUS

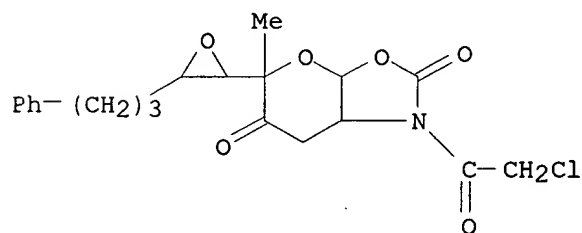
CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl)-5-
heptyldihydro-, (3a.alpha.,5.alpha.,7a.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



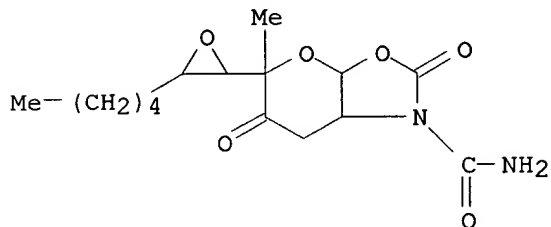
RN 184421-69-0 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl) dihydro-5-
methyl-5-[3-(3-phenylpropyl)oxiranyl]- (9CI) (CA INDEX NAME)



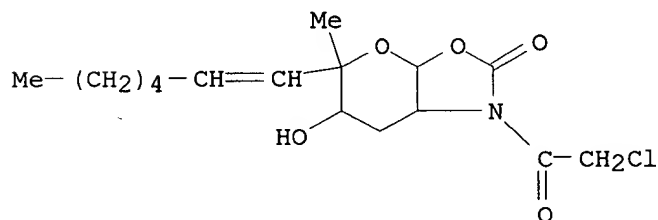
RN 184421-70-3 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-1(2H)-carboxamide, tetrahydro-5-methyl-2,6-dioxo-5-(3-pentyloxiranyl)- (9CI) (CA INDEX NAME)



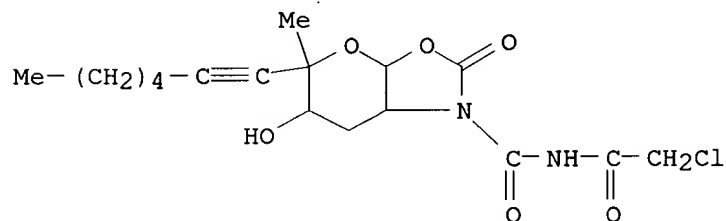
RN 184421-71-4 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 1-(chloroacetyl)-5-(1-heptenyl)tetrahydro-6-hydroxy-5-methyl- (9CI) (CA INDEX NAME)



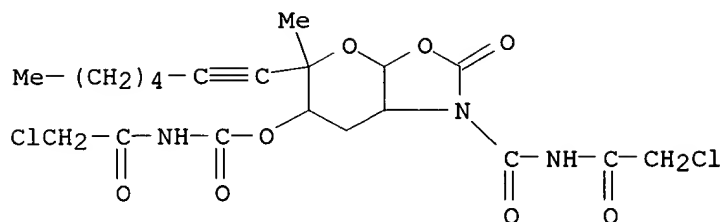
RN 184421-72-5 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-1(2H)-carboxamide, N-(chloroacetyl)-5-(1-heptynyl)tetrahydro-6-hydroxy-5-methyl-2-oxo- (9CI) (CA INDEX NAME)

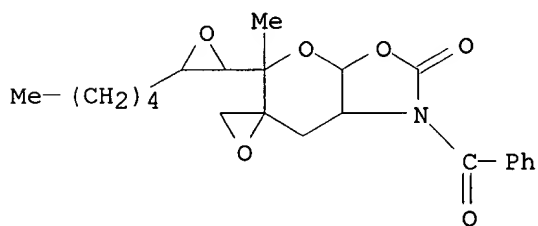


RN 184421-73-6 CAPLUS

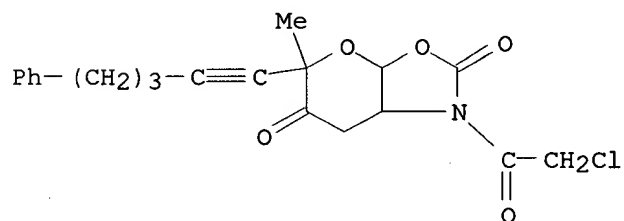
CN Carbamic acid, (chloroacetyl)-, 1-[[[(chloroacetyl)amino]carbonyl]-5-(1-heptynyl)hexahydro-5-methyl-2-oxo-5H-pyrano[3,2-d]oxazol-6-yl ester (9CI) (CA INDEX NAME)



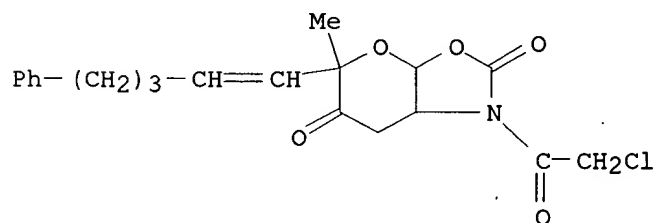
RN 184421-74-7 CAPLUS
 CN Spiro[oxirane-2,6'-(3'aH)-[5H]pyrano[3,2-d]oxazol]-2'(1'H)-one,
 1'-benzoyldihydro-5'-methyl-5'-(3-pentyloxiranyl)- (9CI) (CA INDEX NAME)



RN 184421-75-8 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl)dihydro-5-
 methyl-5-(5-phenyl-1-pentynyl)- (9CI) (CA INDEX NAME)

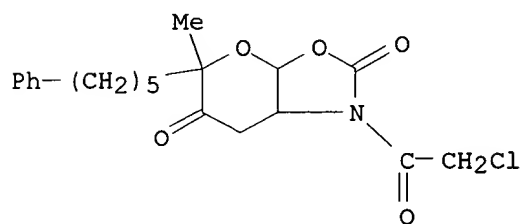


RN 184421-76-9 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl)dihydro-5-
 methyl-5-(5-phenyl-1-pentenyl)- (9CI) (CA INDEX NAME)



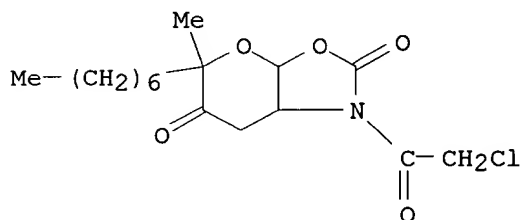
RN 184421-77-0 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl)dihydro-5-

methyl-5-(5-phenylpentyl)- (9CI) (CA INDEX NAME)



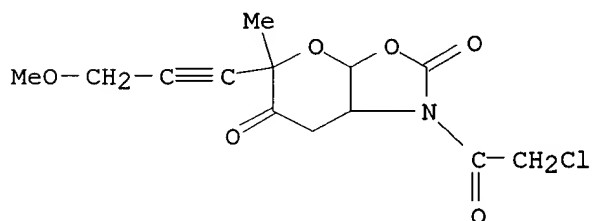
RN 184421-78-1 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl)-5-heptyldihydro-5-methyl- (9CI) (CA INDEX NAME)



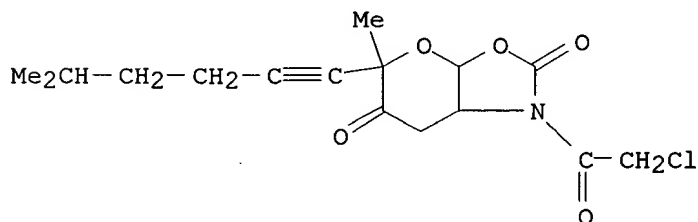
RN 184421-79-2 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl)dihydro-5-(3-methoxy-1-propynyl)-5-methyl- (9CI) (CA INDEX NAME)



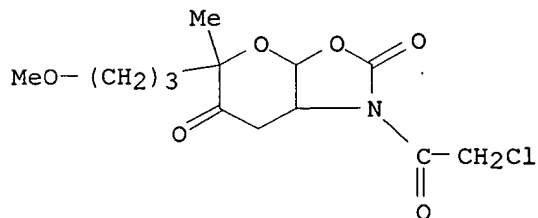
RN 184421-80-5 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl)dihydro-5-methyl-5-(5-methyl-1-hexynyl)- (9CI) (CA INDEX NAME)



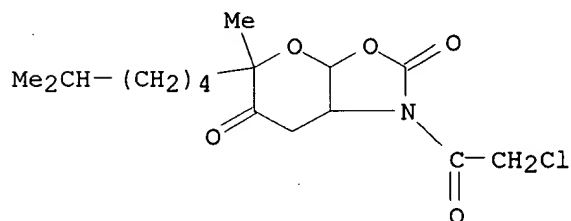
RN 184421-81-6 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl) dihydro-5-(3-methoxypropyl)-5-methyl- (9CI) (CA INDEX NAME)



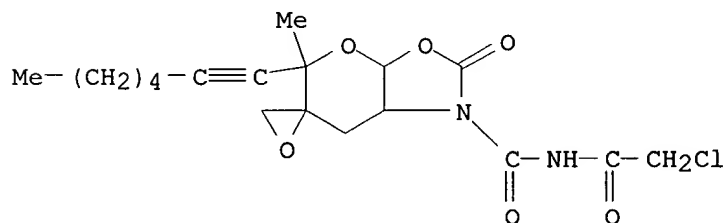
RN 184421-82-7 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl) dihydro-5-methyl-5-(5-methylhexyl)- (9CI) (CA INDEX NAME)



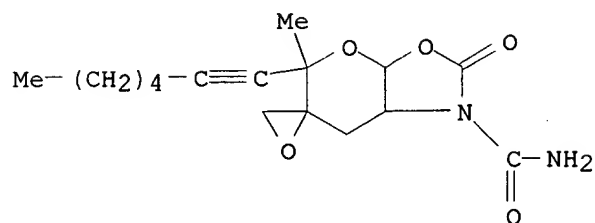
RN 184421-83-8 CAPLUS

CN Spiro[oxirane-2,6'(3'aH)]-[5H]pyrano[3,2-d]oxazole-1'(2'H)-carboxamide, N-(chloroacetyl)-5'-(1-heptynyl) dihydro-5'-methyl-2'-oxo- (9CI) (CA INDEX NAME)



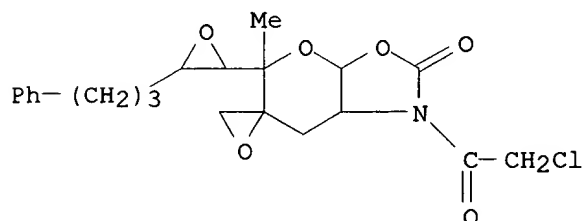
RN 184421-84-9 CAPLUS

CN Spiro[oxirane-2,6'(3'aH)]-[5H]pyrano[3,2-d]oxazole-1'(2'H)-carboxamide, 5'-(1-heptynyl) dihydro-5'-methyl-2'-oxo- (9CI) (CA INDEX NAME)



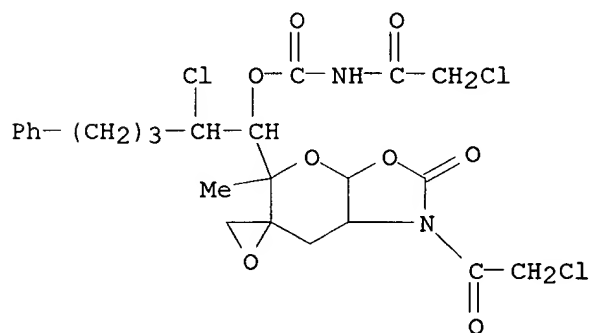
RN 184421-85-0 CAPLUS

CN Spiro[oxirane-2,6'-(3'aH)-[5H]pyrano[3,2-d]oxazol]-2'-(1'H)-one,
1'-(chloroacetyl) dihydro-5'-methyl-5'-[3-(3-phenylpropyl)oxiranyl]- (9CI)
(CA INDEX NAME)



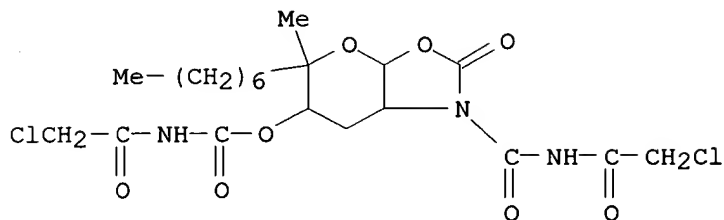
RN 184421-86-1 CAPLUS

CN Carbamic acid, (chloroacetyl)-, 2-chloro-1-[1'-(chloroacetyl)tetrahydro-5'-methyl-2'-oxospiro[oxirane-2,6'-(3'aH)-[5H]pyrano[3,2-d]oxazol]-5'-yl]-5-phenylpentyl ester (9CI) (CA INDEX NAME)

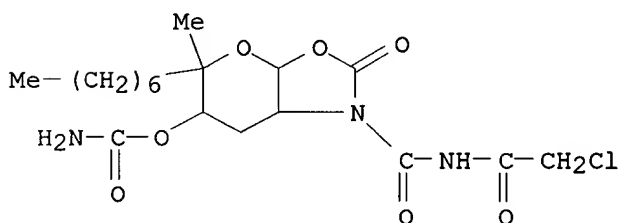


RN 184421-87-2 CAPLUS

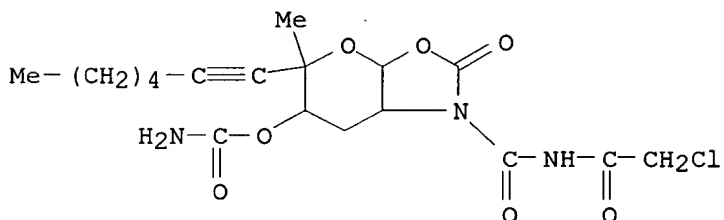
CN Carbamic acid, (chloroacetyl)-, 1-[[[(chloroacetyl)amino]carbonyl]-5-heptylhexahydro-5-methyl-2-oxo-5H-pyrano[3,2-d]oxazol-6-yl ester (9CI)
(CA INDEX NAME)



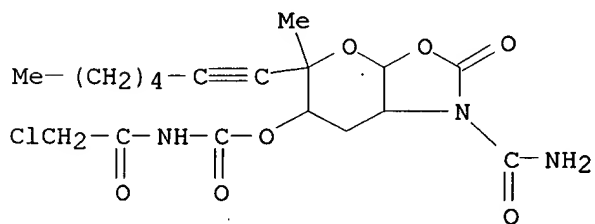
RN 184421-88-3 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazole-1(2H)-carboxamide, 6-[(aminocarbonyl)oxy]-N-(chloroacetyl)-5-heptyltetrahydro-5-methyl-2-oxo- (9CI) (CA INDEX NAME)



RN 184421-89-4 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazole-1(2H)-carboxamide, 6-[(aminocarbonyl)oxy]-N-(chloroacetyl)-5-(1-heptynyl)tetrahydro-5-methyl-2-oxo- (9CI) (CA INDEX NAME)



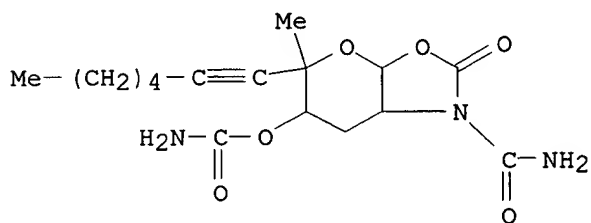
RN 184421-90-7 CAPLUS
 CN Carbamic acid, (chloroacetyl)-, 1-(aminocarbonyl)-5-(1-heptynyl)hexahydro-5-methyl-2-oxo-5H-pyrano[3,2-d]oxazol-6-yl ester (9CI) (CA INDEX NAME)



RN 184421-91-8 CAPLUS

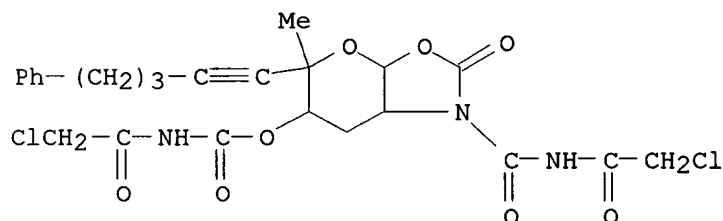
Examiner Anderson 703-605-1157

CN 5H-Pyrano[3,2-d]oxazole-1(2H)-carboxamide, 6-[(aminocarbonyl)oxy]-5-(1-heptynyl)tetrahydro-5-methyl-2-oxo- (9CI) (CA INDEX NAME)



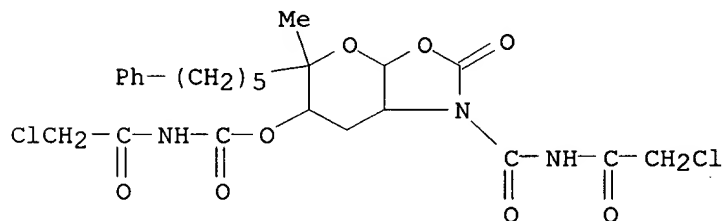
RN 184421-92-9 CAPLUS

CN Carbamic acid, (chloroacetyl)-, 1-[[[(chloroacetyl)amino]carbonyl]hexahydro-5-methyl-2-oxo-5-(5-phenyl-1-pentynyl)-5H-pyrano[3,2-d]oxazol-6-yl ester (9CI) (CA INDEX NAME)



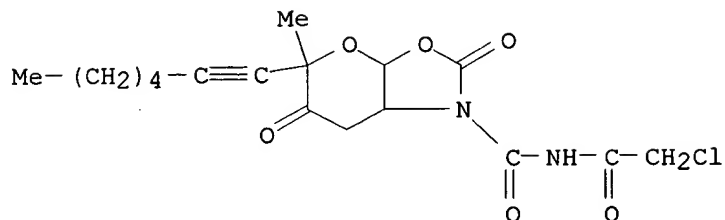
RN 184421-93-0 CAPLUS

CN Carbamic acid, (chloroacetyl)-, 1-[[[(chloroacetyl)amino]carbonyl]hexahydro-5-methyl-2-oxo-5-(5-phenylpentyl)-5H-pyrano[3,2-d]oxazol-6-yl ester (9CI) (CA INDEX NAME)



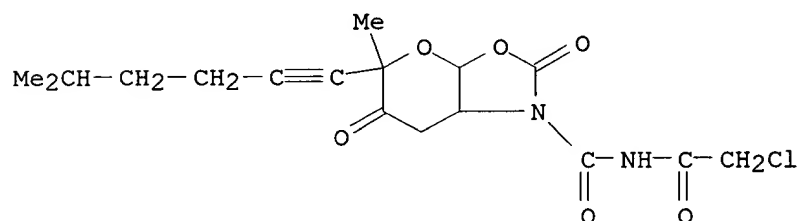
RN 184421-94-1 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-1(2H)-carboxamide, N-(chloroacetyl)-5-(1-heptynyl)tetrahydro-5-methyl-2,6-dioxo- (9CI) (CA INDEX NAME)



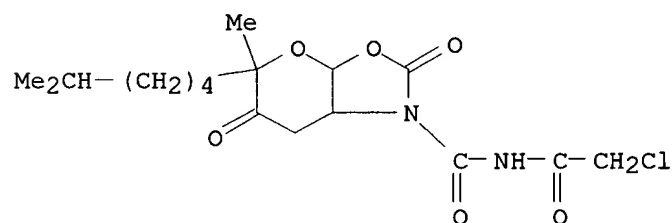
RN 184421-95-2 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-1(2H)-carboxamide, N-(chloroacetyl)tetrahydro-5-methyl-5-(5-methyl-1-hexynyl)-2,6-dioxo- (9CI) (CA INDEX NAME)



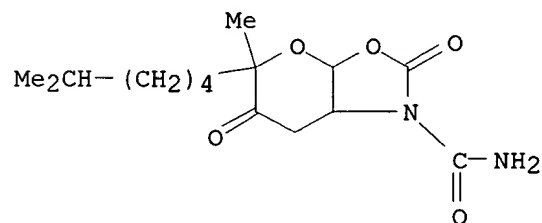
RN 184421-96-3 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-1(2H)-carboxamide, N-(chloroacetyl)tetrahydro-5-methyl-5-(5-methylhexyl)-2,6-dioxo- (9CI) (CA INDEX NAME)



RN 184421-97-4 CAPLUS

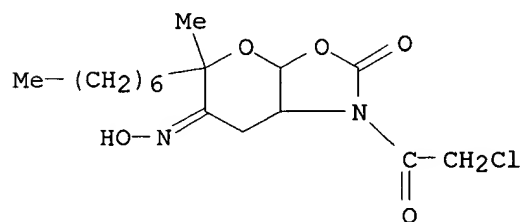
CN 5H-Pyrano[3,2-d]oxazole-1(2H)-carboxamide, tetrahydro-5-methyl-5-(5-methylhexyl)-2,6-dioxo- (9CI) (CA INDEX NAME)



RN 184421-98-5 CAPLUS

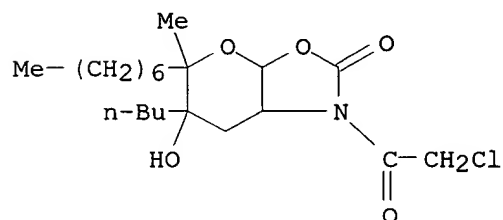
CN 5H-Pyrano[3,2-d]oxazole-1(2H)-carboxamide, N-(chloroacetyl)-5-

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl)-5-heptyldihydro-5-methyl-, 6-oxime (9CI) (CA INDEX NAME)



RN 184422-03-5 CAPLUS

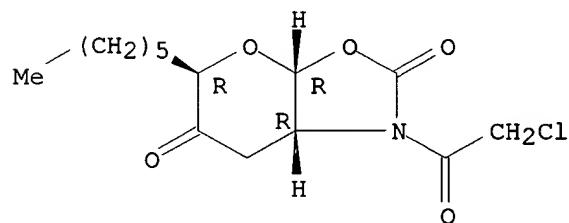
CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6-butyl-1-(chloroacetyl)-5-heptyltetrahydro-6-hydroxy-5-methyl- (9CI) (CA INDEX NAME)



RN 184422-04-6 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl)-5-hexyldihydro-, (3a.alpha.,5.alpha.,7a.alpha.)- (9CI) (CA INDEX NAME)

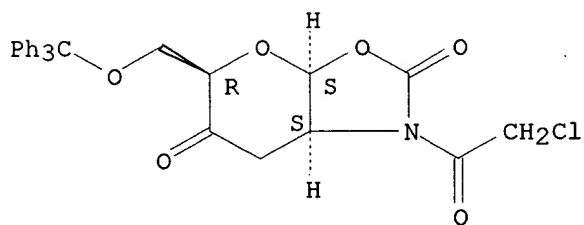
Relative stereochemistry.



RN 184422-05-7 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl)dihydro-5-[(triphenylmethoxy)methyl]-, [3aS-(3a.alpha.,5.beta.,7a.alpha.)]- (9CI) (CA INDEX NAME)

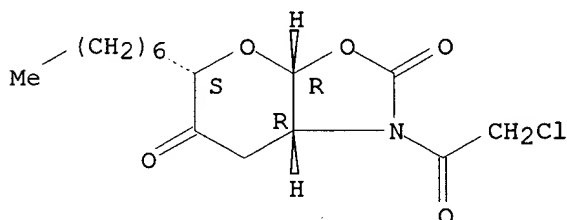
Absolute stereochemistry.



RN 184653-49-4 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl)-5-heptyldihydro-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

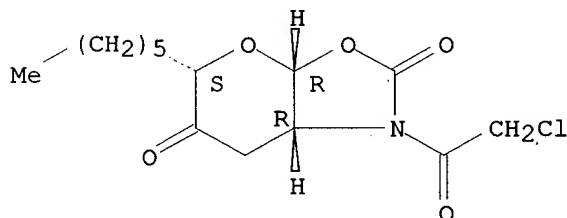
Relative stereochemistry.



RN 184653-50-7 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-(chloroacetyl)-5-hexyldihydro-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 184422-08-0P 184422-09-1P 184422-10-4P

184422-11-5P 184422-12-6P 184422-13-7P

184422-14-8P 184422-15-9P 184422-16-0P

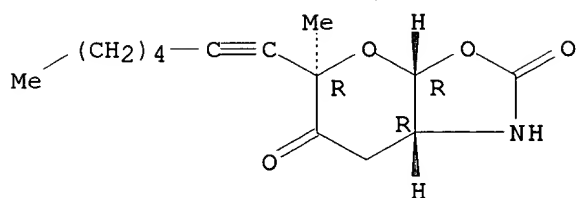
184422-17-1P 184653-51-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of tetrahydropyrano[3,2-d]oxazolones as angiogenesis inhibitors)

RN 184422-08-0 CAPLUS

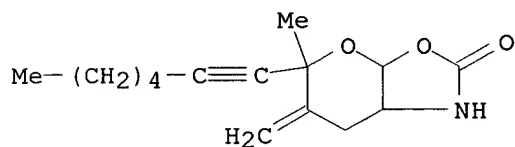
CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 5-(1-heptynyl)dihydro-5-methyl-, (3a.alpha.,5.alpha.,7a.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



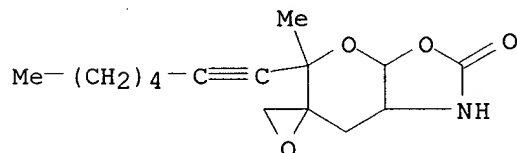
RN 184422-09-1 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 5-(1-heptynyl)tetrahydro-5-methyl-6-methylene- (9CI) (CA INDEX NAME)



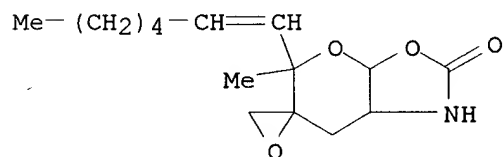
RN 184422-10-4 CAPLUS

CN Spiro[oxirane-2,6'-(3'aH)]-[5H]pyrano[3,2-d]oxazol]-2'(1'H)-one, 5'-(1-heptynyl)dihydro-5'-methyl- (9CI) (CA INDEX NAME)



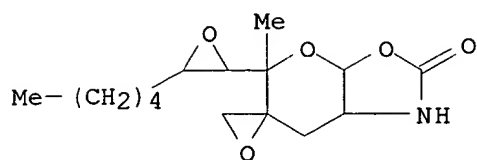
RN 184422-11-5 CAPLUS

CN Spiro[oxirane-2,6'-(3'aH)]-[5H]pyrano[3,2-d]oxazol]-2'(1'H)-one, 5'-(1-heptynyl)dihydro-5'-methyl- (9CI) (CA INDEX NAME)



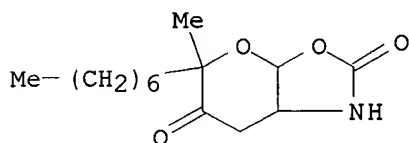
RN 184422-12-6 CAPLUS

CN Spiro[oxirane-2,6'-(3'aH)]-[5H]pyrano[3,2-d]oxazol]-2'(1'H)-one, dihydro-5'-methyl-5'-(3-pentyloxiranyl)- (9CI) (CA INDEX NAME)



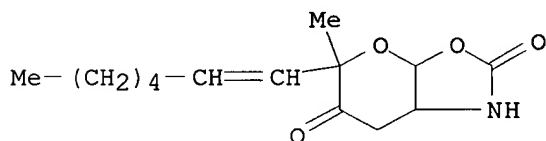
RN 184422-13-7 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 5-heptyldihydro-5-methyl- (9CI)
(CA INDEX NAME)



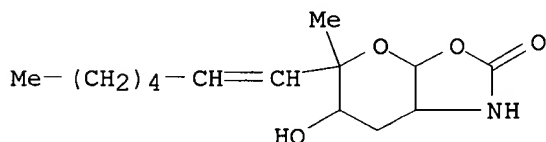
RN 184422-14-8 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 5-(1-heptenyl)dihydro-5-methyl- (9CI) (CA INDEX NAME)



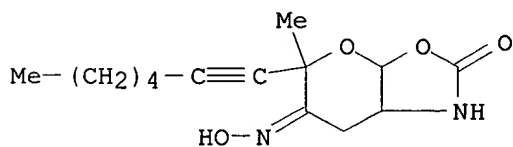
RN 184422-15-9 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 5-(1-heptenyl)tetrahydro-6-hydroxy-5-methyl- (9CI) (CA INDEX NAME)



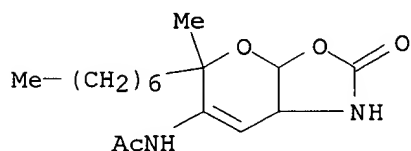
RN 184422-16-0 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 5-(1-heptynyl)dihydro-5-methyl-, 6-oxime (9CI) (CA INDEX NAME)



RN 184422-17-1 CAPLUS

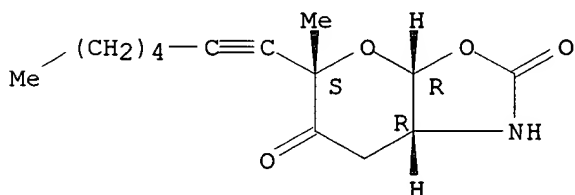
CN Acetamide, N-(5-heptyl-1,2,3a,7a-tetrahydro-5-methyl-2-oxo-5H-pyrano[3,2-d]oxazol-6-yl)- (9CI) (CA INDEX NAME)



RN 184653-51-8 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 5-(1-heptynyl) dihydro-5-methyl-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L17 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1995:881298 CAPLUS

DOCUMENT NUMBER: 123:286523

TITLE: Preparation of 21-monosaccharide substituted steroid compounds as antiinflammatory agents

INVENTOR(S): Sugai, Kei; Goto, Motoaki; Yoshida, Satoshi; Okuno, Yumiko; Ishii, Takayuki; Kibushi, Nobuyuki; Nishikawa, Hutoshi

PATENT ASSIGNEE(S): Mect Corp., Japan

SOURCE: PCT Int. Appl., 139 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

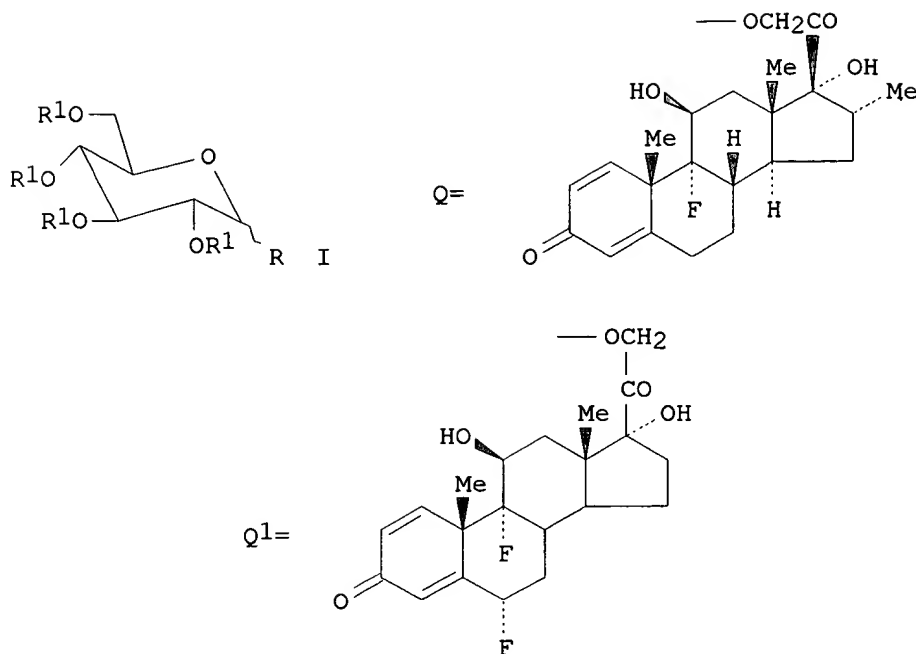
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9509177	A1	19950406	WO 1994-JP1602	19940928
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2172983	AA	19950406	CA 1994-2172983	19940928
EP 721956	A1	19960717	EP 1994-927793	19940928
EP 721956	B1	20000802		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 195127	E	20000815	AT 1994-927793	19940928
US 5945404	A	19990831	US 1997-927399	19970910
PRIORITY APPLN. INFO.:			JP 1993-243123	A 19930929
			WO 1994-JP1602	W 19940928

GI

Examiner Anderson 703-605-1157



AB A steroid glycoside (wherein the 21-position of the steroid is substituted by a monosaccharide or an acylated sugar selected from glucose, galactose, mannose, rhamnose, fucose, N-acetylglucosamine, N-acetylgalactosamine, galacturonic acid, glucuronic acid and sialic acid) is prepd. The hydroxy groups of the acylated sugar are protected by toluoyl, benzoyl, p-chlorobenzoyl, or arylalkyl. The preferred steroid is difluprednate, diflorasone, diflucortolone, dexamethasone, betamethasone, or betamethasone valerate. This glycoside shows reduced side effects since it is resistant to common glycosidase and is converted into active steroid by glycosidase increased at inflammation sites. Thus, 300 mg dexamethasone was glycosidated with 1.10 g per(p-toluoyl)-.alpha.-D-glucopyranosyl bromide in the presence of silver triflate and mol. sieve 5A in THF at room temp. for 2 h to give, after silica gel chromatog. and reversed phase HPLC, 32.3% .beta.-D-glucopyranosyldexamethasone (I; R = .beta.-Q, R1 = toluoyl) and 6.7% .alpha.-anomer I (R = .alpha.-Q, R1 = toluoyl), which were treated with NaOMe in MeOH at room temp. for 5 h to give, after HPLC purifn., .beta.-glycoside I (R = .beta.-Q, R1 = H) (II) and .alpha.-glycoside (R = .alpha.-Q, R1 = H) in 88.5 and 40.0%, resp. In paper disk assay, II in vivo decreased granuloma in rats by 47.4% compared to the control. .beta.-D-Glucopyranosyldifluprednate I (R = .beta.-Q1, R1 = H) at 1.0 mg inhibited the croton oil-induced granuloma in rats by 76.4+-.4.3%. A vaseline-based ointment (0.1% equiv. dexamethasone, 20 mg) contg. acetylated .beta.-D-glucopyranosyldexamethasone I (R = .beta.-Q, R1 = Ac), which was applied to the right ear of mice, inhibited the croton oil-induced ear edema by 49.8+-.9.7%.

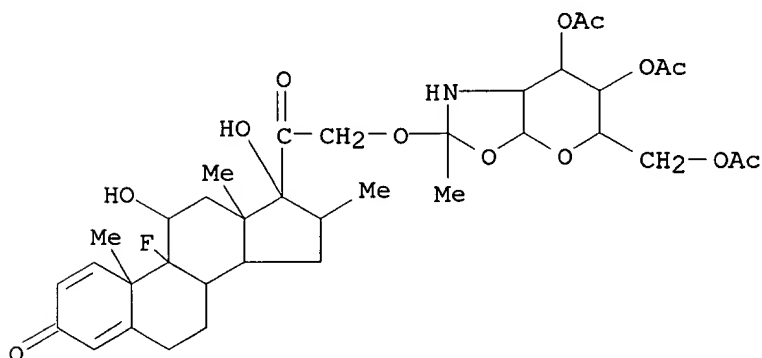
IT **169453-61-6P 169453-62-7P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of monosaccharide-substituted steroid compds. as
antiinflammatory agents)

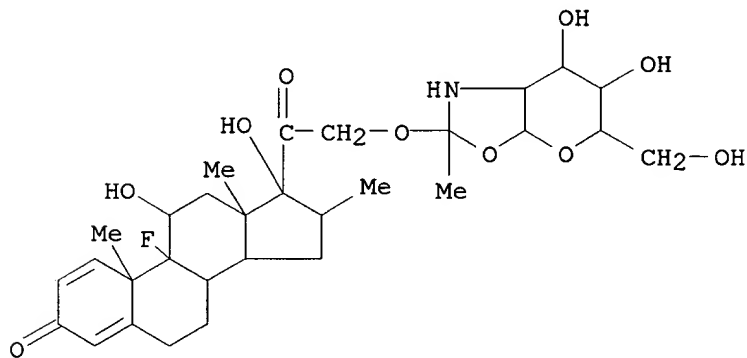
RN 169453-61-6 CAPLUS

CN Pregna-1,4-diene-3,20-dione, 21-[[6,7-bis(acetyloxy)-5-
[(acetyloxy)methyl]hexahydro-2-methyl-5H-pyrano[3,2-d]oxazol-2-yl]oxy]-9-
fluoro-11,17-dihydroxy-16-methyl-, (11.beta.,16.alpha.)- (9CI) (CA INDEX
NAME)



RN 169453-62-7 CAPLUS

CN Pregna-1,4-diene-3,20-dione, 9-fluoro-21-[[hexahydro-6,7-dihydroxy-5-
(hydroxymethyl)-2-methyl-5H-pyrano[3,2-d]oxazol-2-yl]oxy]-11,17-dihydroxy-
16-methyl-, (11.beta.,16.alpha.)- (9CI) (CA INDEX NAME)



L17 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1995:548863 CAPLUS

DOCUMENT NUMBER: 123:198153

TITLE: Electron impact ionization mass spectra of
6-carbamoyloxy-3-oxo-3,6-dihydro-2H-pyran and
5H-pyrano[3,2-d]oxazole-2,6-dione derivatives

AUTHOR(S): Couladouros, Elias A.; Haroutounian, Serkos A.

CORPORATE SOURCE: Chemistry Laboratory, Agricultural University of
Athens, Athens, 11855, Greece

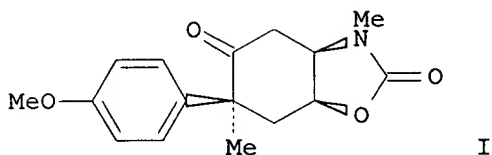
SOURCE: J. Heterocycl. Chem. (1995), 32(2), 579-84

CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal

Examiner Anderson 703-605-1157

LANGUAGE: English
GI



AB 6-Carbamoyloxy-3-oxo-3,6-dihydro-2H-pyrans and 5H-pyrano[3,2-d]oxazole-2,6-dione derivs., e.g. I, were prepd. their electron impact ionization mass spectra studied. They show a weak mol. ion peak and a base peak of m/z 84 resulting from a retro Diels-Alder fragmentation. The bicyclic system 5H-pyrano[3,2-d]oxazole-2,6-dione gives a characteristic fragmentation pattern with a very stable fragment of oxazolenone.

IT 133150-05-7 145371-52-4 145371-64-8
167968-93-6

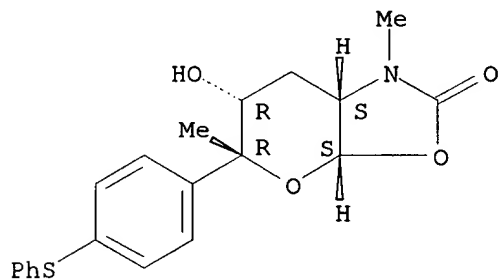
RL: PRP (Properties)

(electron impact ionization mass spectra of
(carbamoyloxy)oxodihydropyran and pyranooxazolidione derivs.)

RN 133150-05-7 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, tetrahydro-6-hydroxy-1,5-dimethyl-5-[4-(phenylthio)phenyl]-, (3a.alpha.,5.beta.,6.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

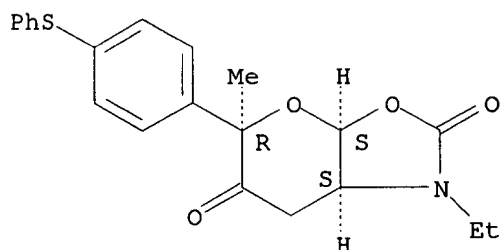
Relative stereochemistry.



RN 145371-52-4 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-ethylidihydro-5-methyl-5-[4-(phenylthio)phenyl]-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

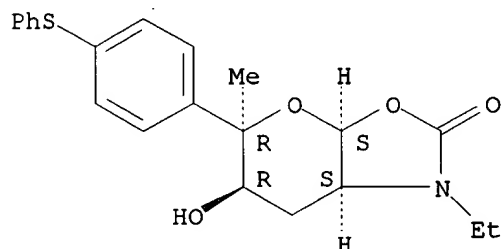
Relative stereochemistry.



RN 145371-64-8 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 1-ethyltetrahydro-6-hydroxy-5-methyl-5-[4-(phenylthio)phenyl]-, (3a.alpha.,5.beta.,6.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

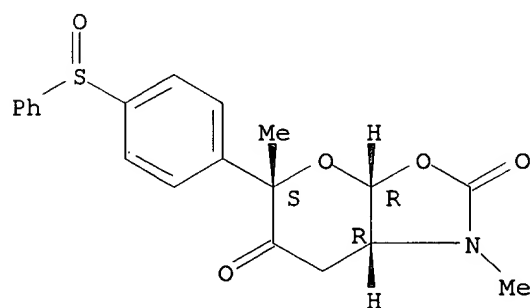
Relative stereochemistry.



RN 167968-93-6 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, dihydro-1,5-dimethyl-5-[4-(phenylsulfanyl)phenyl]-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 133150-03-5

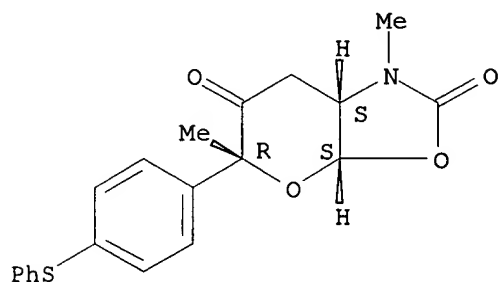
RL: PRP (Properties); RCT (Reactant)
(electron impact ionization mass spectra of
(carbamoyloxy)oxodihydropyran and pyranooxazolidone derivs.)

RN 133150-03-5 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, dihydro-1,5-dimethyl-5-[4-(phenylthio)phenyl]-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

Examiner Anderson 703-605-1157

Relative stereochemistry.



IT 167968-95-8P

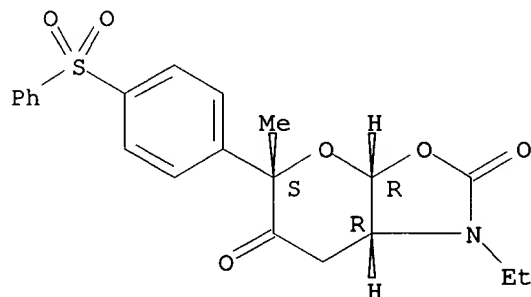
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

(electron impact ionization mass spectra of (carbamoyloxy)oxodihydropyran and pyranooxazolidone derivs.)

RN 167968-95-8 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-ethyl-5-methyl-5-[4-(phenylsulfonyl)phenyl]-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



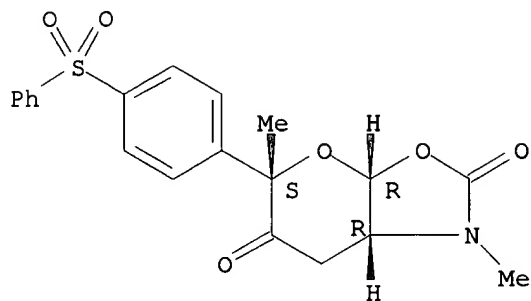
IT 133268-29-8P 167968-94-7P 167968-96-9P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(electron impact ionization mass spectra of (carbamoyloxy)oxodihydropyran and pyranooxazolidone derivs.)

RN 133268-29-8 CAPLUS

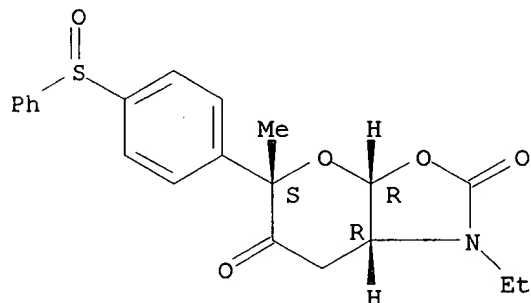
CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, dihydro-1,5-dimethyl-5-[4-(phenylsulfonyl)phenyl]-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



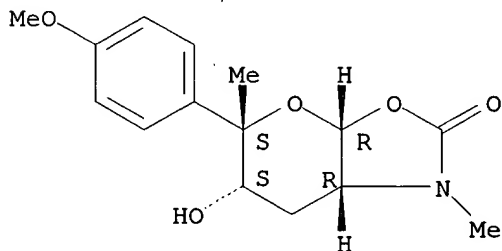
RN 167968-94-7 CAPLUS
CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-ethyl-5-methyl-5-[4-(phenylsulfinyl)phenyl]-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 167968-96-9 CAPLUS
CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, tetrahydro-6-hydroxy-5-(4-methoxyphenyl)-1,5-dimethyl-, (3a.alpha.,5.beta.,6.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L17 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1995:297127 CAPLUS
DOCUMENT NUMBER: 122:133039
TITLE: Photochemistry of acyl azides. VIII. Do acylnitrenes react as 1,3-dipoles?

Examiner Anderson 703-605-1157

AUTHOR(S): Buck, Karin; Jacobi, Dirk; Ploegert, Yvette; Abraham, Werner
 CORPORATE SOURCE: Inst. Chem., Humboldt-Univ., Berlin, Germany
 SOURCE: J. Prakt. Chem./Chem.-Ztg. (1994), 336(8), 678-85
 CODEN: JPCCEM; ISSN: 0941-1216
 DOCUMENT TYPE: Journal
 LANGUAGE: German

AB The formation of three- or five-membered heterocyclic rings by the reaction of acylnitrenes with olefins depends on the electron d. at the double bond. The generally expected formation of aziridines by a cheletropic reaction was obsd. in photolysis of aroyl azides in the presence of 2,5-dihydrofuran. With enol ethers, however, oxazolines were directly formed. This [3 + 2] cycloaddn. was regiospecific. The cycloaddn. with a cyclic enol ether, 3,4-dihydro-2-methoxy-2H-pyran, was modestly stereoselective owing to steric hindrance. Very small de-values were found with chiral substituents in the acyl azide. The azide decompn. was also achieved by photoinduced electron transfer. The same cycloaddn. products obtained in direct photolysis of the azides were obtained via radical anions of the acyl azides. By using Michler's ketone as electron donor in the triplet state, the formation of isocyanate, which diminishes the yield of cycloadducts, can be avoided.

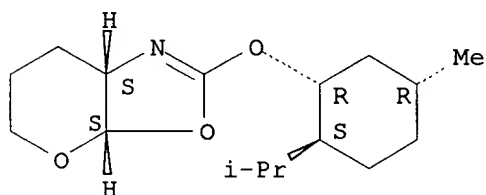
IT 160890-94-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (photochem. cycloaddn. reaction of acyl azides with olefins)

RN 160890-94-8 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole, 3a,6,7,7a-tetrahydro-2-[[5-methyl-2-(1-methylethyl)cyclohexyl]oxy]-, [1.alpha.(3aS*,7aS*),2.beta.,5.alpha.]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L17 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1994:218355 CAPLUS

DOCUMENT NUMBER: 120:218355

TITLE: Stereoselective conjugate addition of organoaluminum chlorides to .alpha.,.beta.-unsaturated carboxylic acid derivatives

AUTHOR(S): Rueck, Karola; Kunz, Horst

CORPORATE SOURCE: Inst. Org. Chem., Univ. Mainz, Mainz, D-55099, Germany

SOURCE: Synthesis (1993), (10), 1018-28

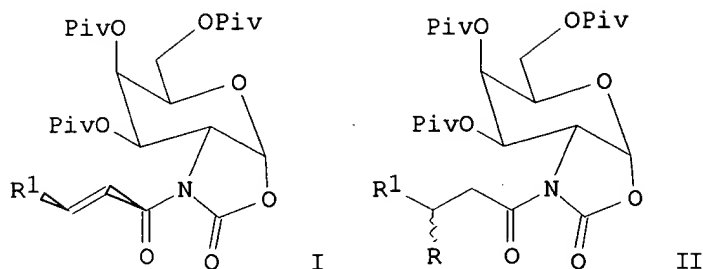
CODEN: SYNTBF; ISSN: 0039-7881

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 120:218355

GI



AB Organoaluminum chlorides R_2AlCl ($R = Me, Et, Ph$) react smoothly with .alpha.,.beta.-unsatd. N-acyloxazolidinones, e.g. I ($R^1 = Me, Ph, Et, Pr$), providing chiral .beta.-branched carboxylic acid derivs., e.g. II. An unexpected contrast between the mode of reaction of dimethylaluminum chloride and that of the higher homologues is obsd. While diethylaluminum chloride and its higher homologues react with the acceptors at low temp. via a polar pathway, dimethylaluminum chloride requires activation by UV-light or radical initiation under otherwise identical conditions. With bicyclic oxazolidinones derived from galactosamine a high stereoselection is accomplished in the formation of the branched carboxylic acid deriv.

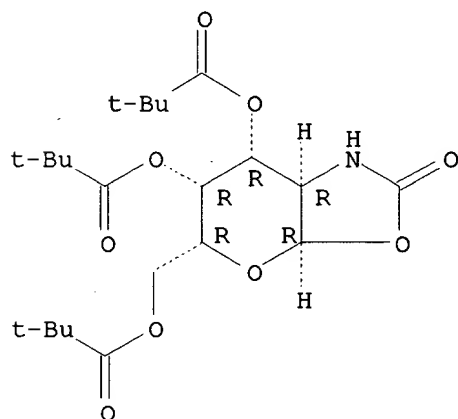
IT 142061-31-2P 149128-39-2P 149198-98-1P
149198-99-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(intermediate in prepn. of bicyclic oxazolidinone sugars)

RN 142061-31-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-(3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

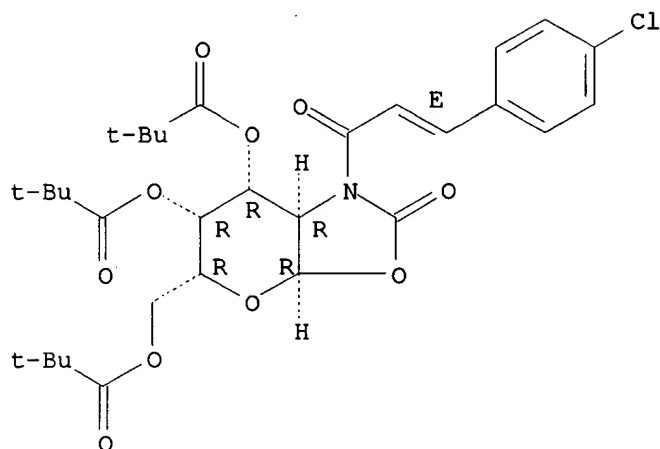
Absolute stereochemistry.



RN 149128-39-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-[3-(4-chlorophenyl)-1-oxo-2-propenyl]-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(E),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

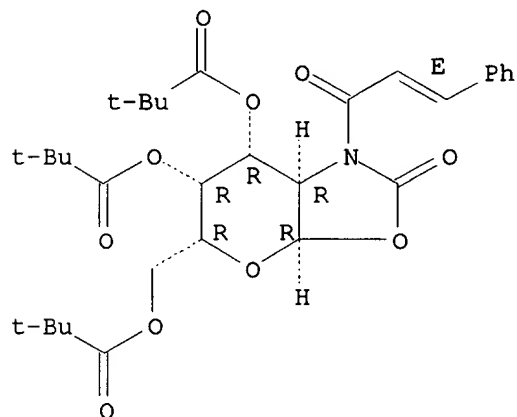
Absolute stereochemistry.
Double bond geometry as shown.



RN 149198-98-1 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenyl-2-propenyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(E),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

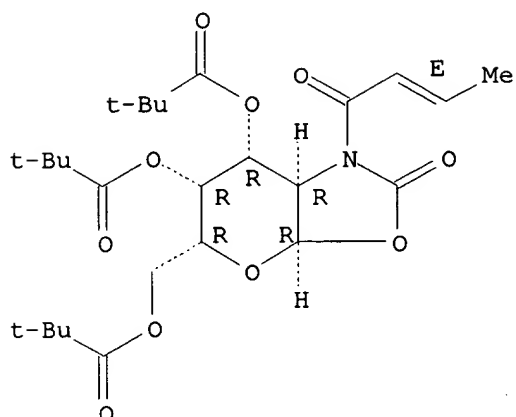
Absolute stereochemistry.
Double bond geometry as shown.



RN 149198-99-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-2-butenyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(E),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



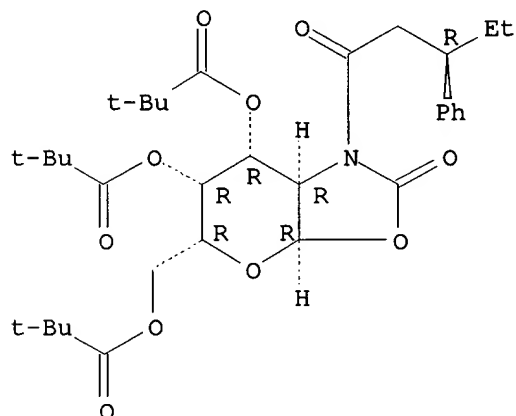
IT 142061-34-5P 142061-35-6P 142061-36-7P
 142061-37-8P 142061-38-9P 142061-39-0P
 142061-40-3P 142130-65-2P 142130-66-3P
 142130-67-4P 142184-87-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 142061-34-5 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylpentyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

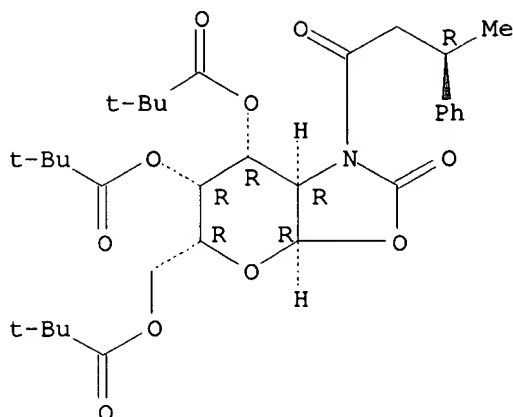
Absolute stereochemistry.



RN 142061-35-6 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylbutyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

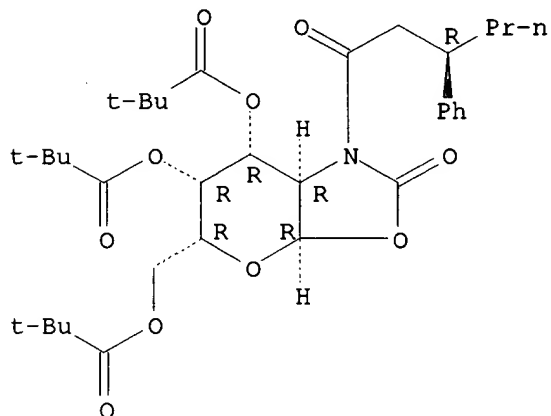
Absolute stereochemistry.



RN 142061-36-7 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylhexyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

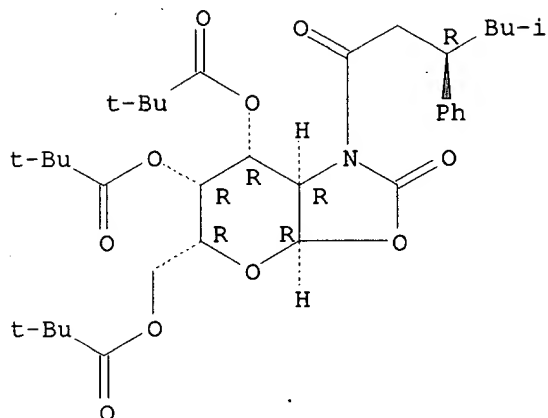
Absolute stereochemistry.



RN 142061-37-8 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(5-methyl-1-oxo-3-phenylhexyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

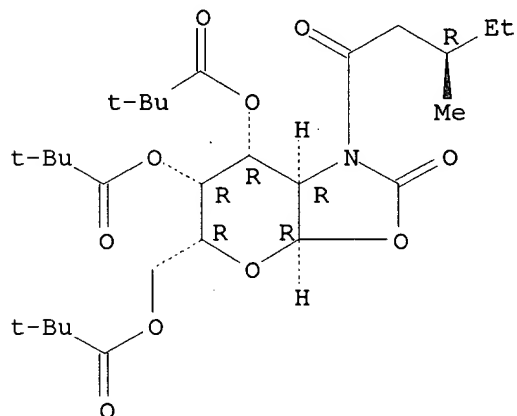
Absolute stereochemistry.



RN 142061-38-9 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(3-methyl-1-oxopentyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

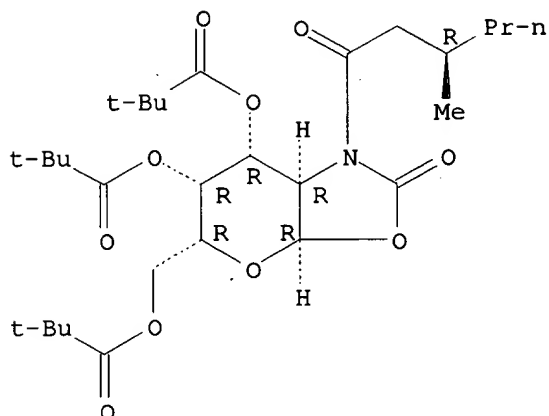
Absolute stereochemistry.



RN 142061-39-0 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(3-methyl-1-oxohexyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

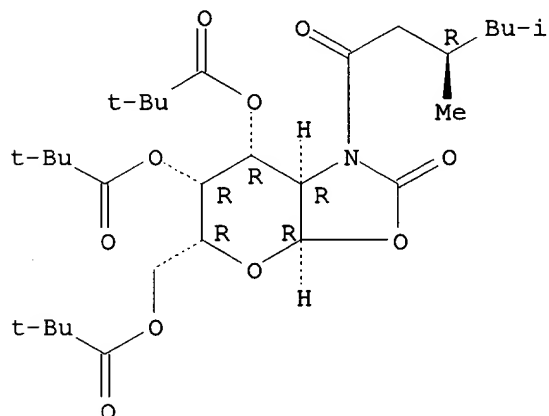
Absolute stereochemistry.



RN 142061-40-3 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-(3,5-dimethyl-1-oxohexyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]-(9CI) (CA INDEX NAME)

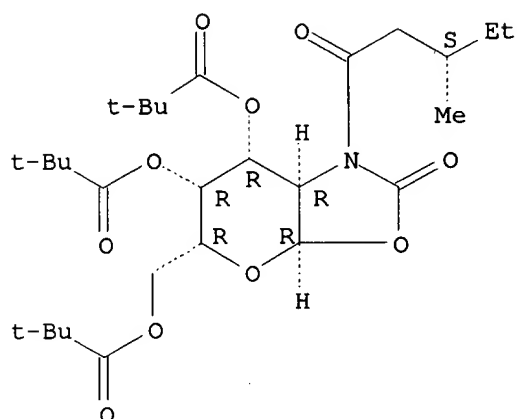
Absolute stereochemistry.



RN 142130-65-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(3-methyl-1-oxopentyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]-(9CI) (CA INDEX NAME)

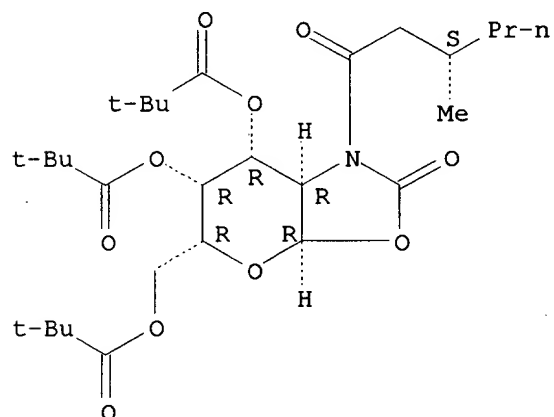
Absolute stereochemistry.



RN 142130-66-3 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(3-methyl-1-oxohexyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

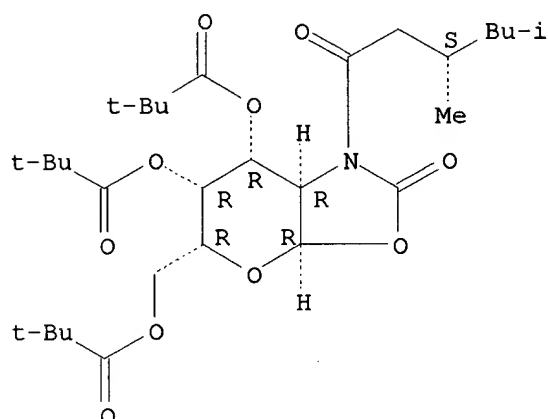
Absolute stereochemistry.



RN 142130-67-4 CAPLUS

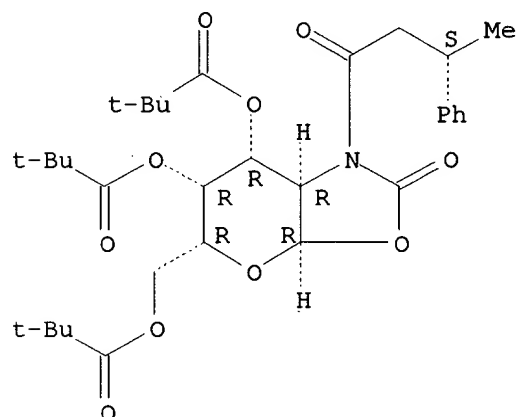
CN Propanoic acid, 2,2-dimethyl-, 1-(3,5-dimethyl-1-oxohexyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 142184-87-0 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylbutyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L17 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1993:603754 CAPLUS
 DOCUMENT NUMBER: 119:203754
 TITLE: Preparation of galactosamine analogs
 INVENTOR(S): Kunz, Horst; Rueck, Karola
 PATENT ASSIGNEE(S): Germany
 SOURCE: Ger. Offen., 11 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

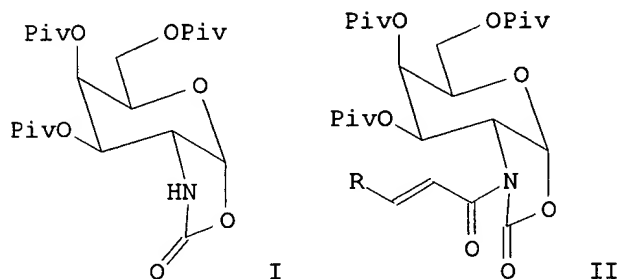
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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Examiner Anderson 703-605-1157

DE 4113327
OTHER SOURCE(S):
GI

Al 19921029
MARPAT 119:203754

DE 1991-4113327 19910424



AB The title compds. [I; II; R = alkyl, alkenyl] are prepd. E.g., 3,4,6-tri-O-acetyl-D-galactal in MeOH was treated with NaOMe-MeOH and then pivaloyl chloride to give 3,4,6-tri-O-pivaloyl-D-galactal, which was treated with NaN₃ in MeCN contg. Ce(NH₄)₂(NO₃)₆ to give 2-azido-3,4,6-tri-O-pivaloyl-2-deoxy-.alpha.,.beta.-D-galactopyranosyl nitrate, which was heated with NaNO₂ in dioxane-H₂O at 80.degree. to give 3,4,6-tri-O-pivaloyl-2-azido-2-deoxy-D-galactopyranose, which was reacted with CO₂ in dioxane contg. PPh₃ to give I.

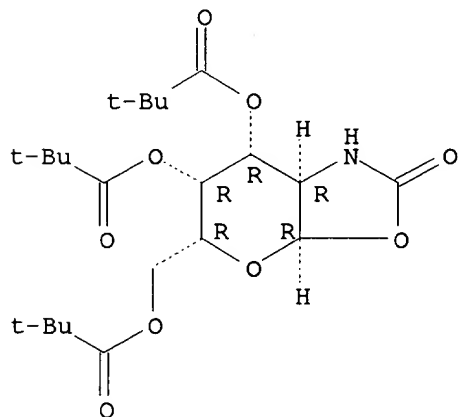
IT 142061-31-2 149128-39-2 149128-40-5
149128-41-6 149198-96-9 149198-98-1
149198-99-2

RL: RCT (Reactant)
(in prepn. of galactosamine analogs)

RN 142061-31-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-(3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

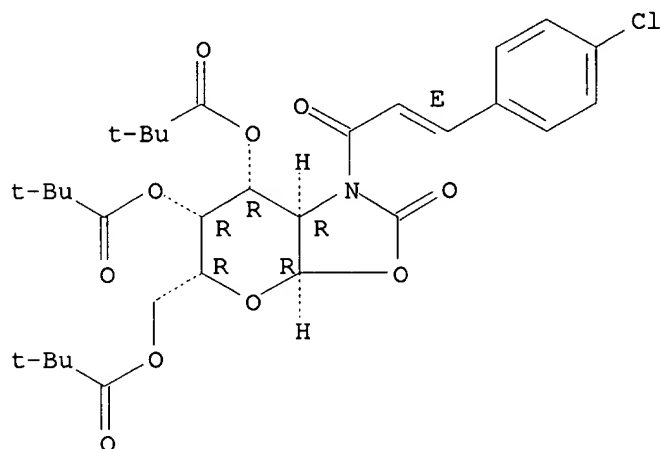


RN 149128-39-2 CAPLUS

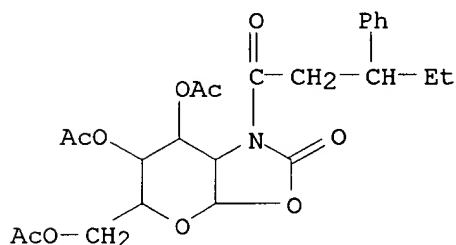
Examiner Anderson 703-605-1157

CN Propanoic acid, 2,2-dimethyl-, 1-[3-(4-chlorophenyl)-1-oxo-2-propenyl]-5-
[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-
6,7-diyl ester, [3aR-[1(E),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]
]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

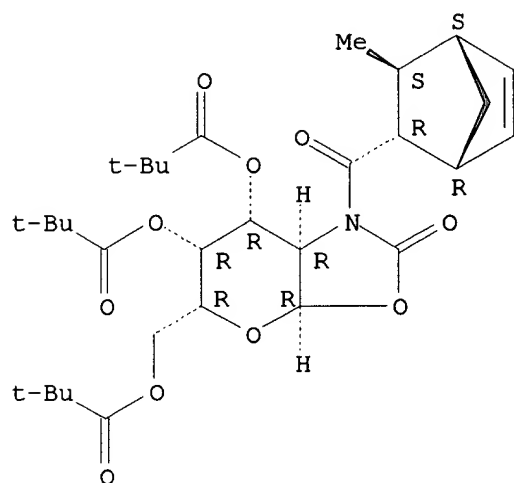


RN 149128-40-5 CAPLUS
CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(acetyloxy)-5-
[(acetyloxy)methyl]tetrahydro-1-(1-oxo-3-phenylpentyl)- (9CI) (CA INDEX
NAME)



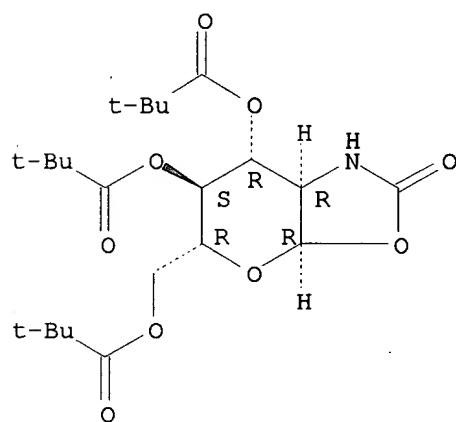
RN 149128-41-6 CAPLUS
CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-
oxopropoxy)methyl]hexahydro-1-[(3-methylbicyclo[2.2.1]hept-5-en-2-
yl)carbonyl]-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester,
[3aR-[1(1R*,2R*,3S*,4S*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



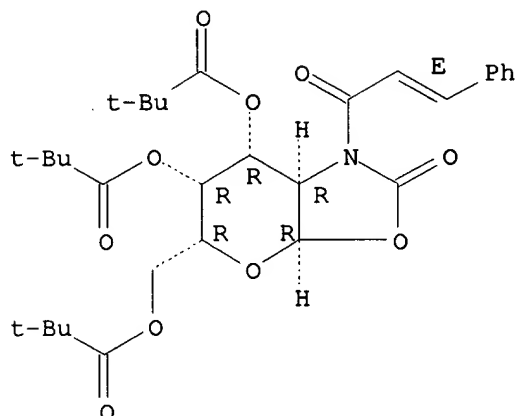
RN 149198-96-9 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-(3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



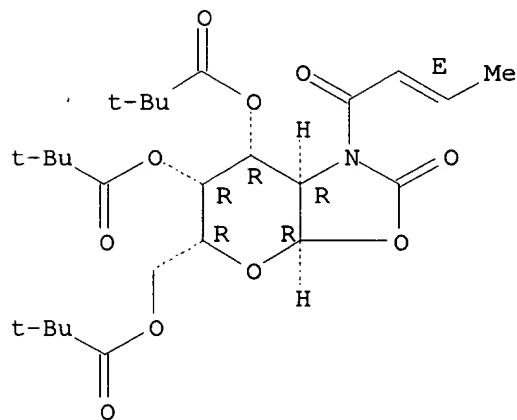
RN 149198-98-1 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenyl-2-propenyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(E),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



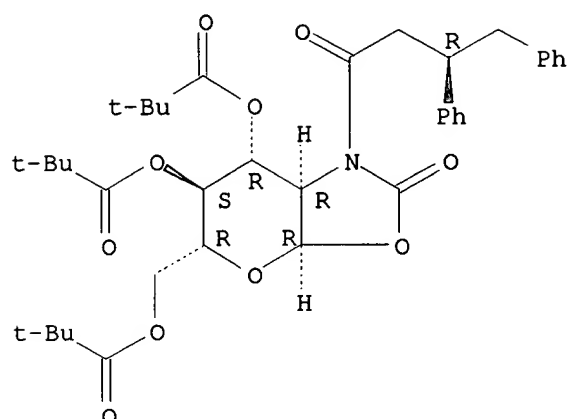
RN 149198-99-2 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-2-butenyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(E),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



IT 149128-49-4P 149199-01-9P 149199-02-0P
 149199-03-1P 149199-04-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 149128-49-4 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3,4-diphenylbutyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

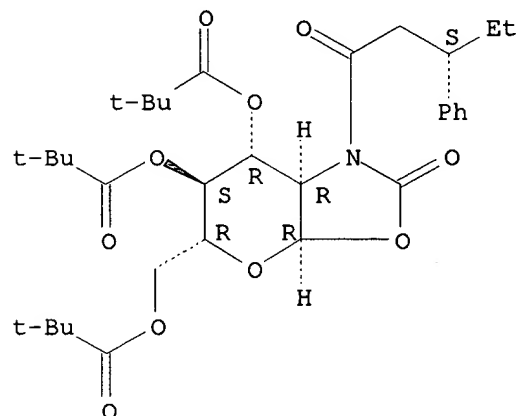
Absolute stereochemistry.



RN 149199-01-9 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylpentyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

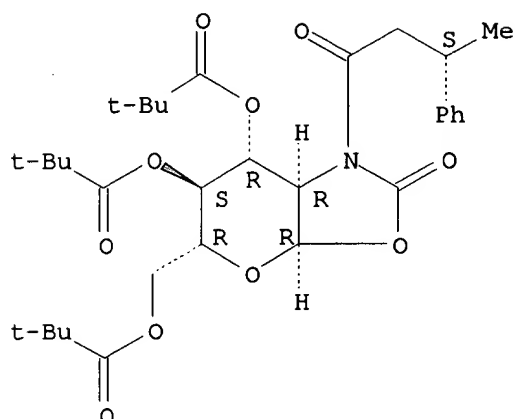
Absolute stereochemistry.



RN 149199-02-0 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylbutyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

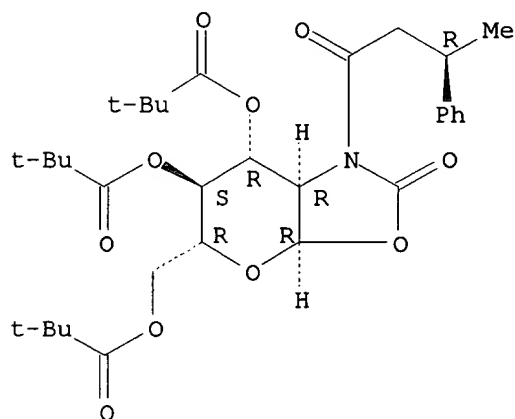
Absolute stereochemistry.



RN 149199-03-1 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylbutyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

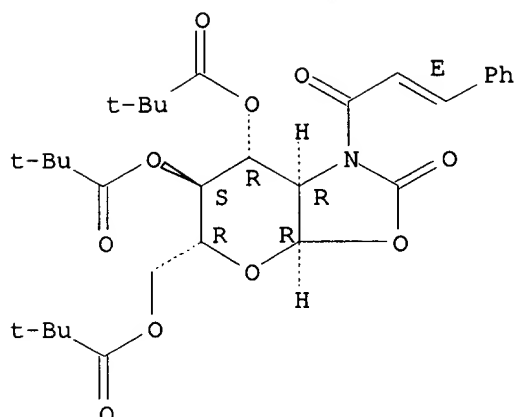


RN 149199-04-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenyl-2-propenyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(E),3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.



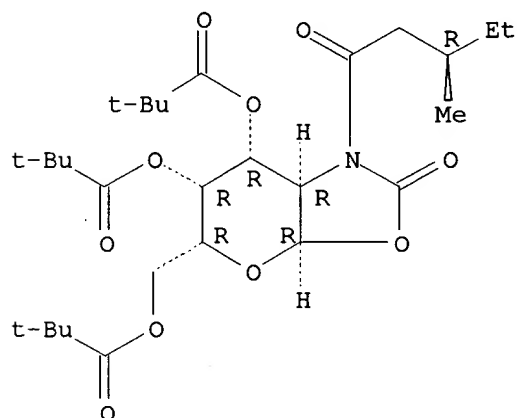
IT 142061-38-9P 142130-65-2P 149128-34-7P
 149198-90-3P 149198-91-4P 149198-92-5P
 149198-93-6P 149198-94-7P 149198-95-8P
 149199-00-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, by alkylation of N-acyloxazolidine derivs.)

RN 142061-38-9 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(3-methyl-1-oxopentyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

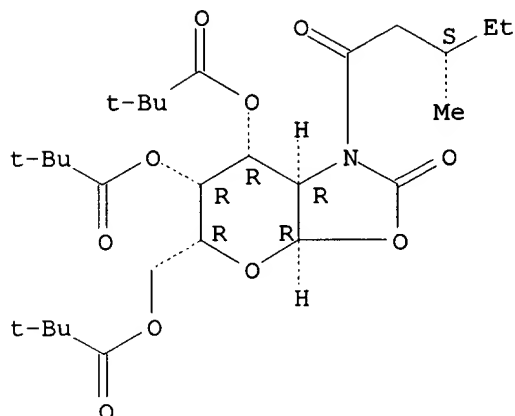
Absolute stereochemistry.



RN 142130-65-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(3-methyl-1-oxopentyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

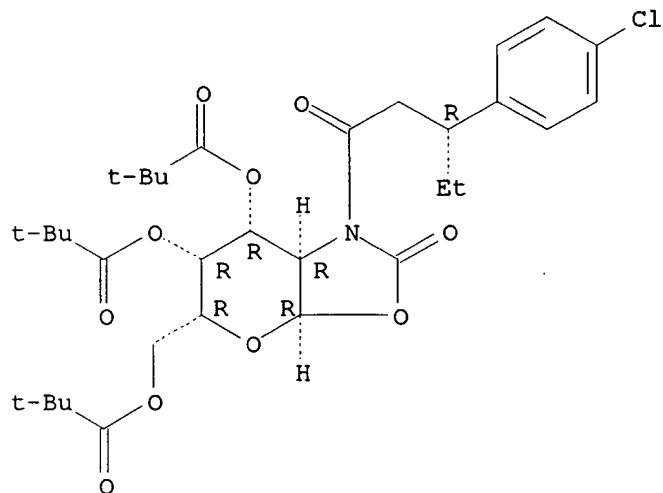
Absolute stereochemistry.



RN 149128-34-7 CAPLUS

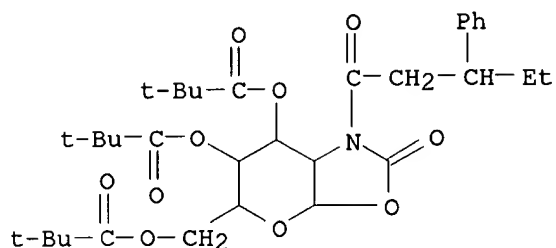
CN Propanoic acid, 2,2-dimethyl-, 1-[3-(4-chlorophenyl)-1-oxopentyl]-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



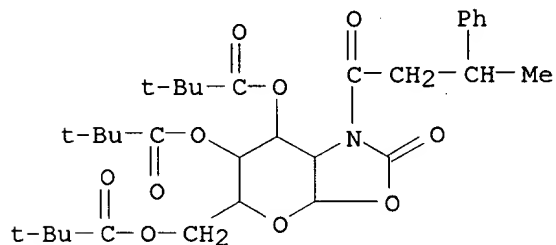
RN 149198-90-3 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylpentyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester (9CI) (CA INDEX NAME)



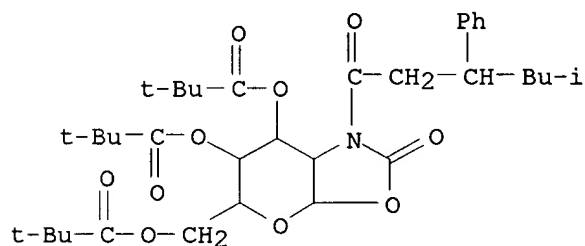
RN 149198-91-4 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylbutyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester (9CI) (CA INDEX NAME)



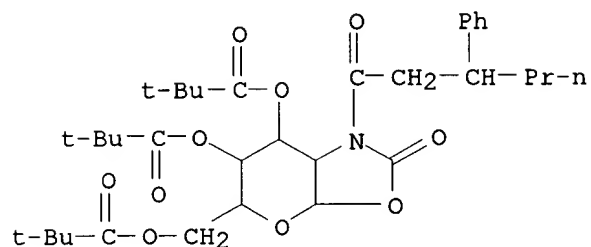
RN 149198-92-5 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(5-methyl-1-oxo-3-phenylhexyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester (9CI) (CA INDEX NAME)



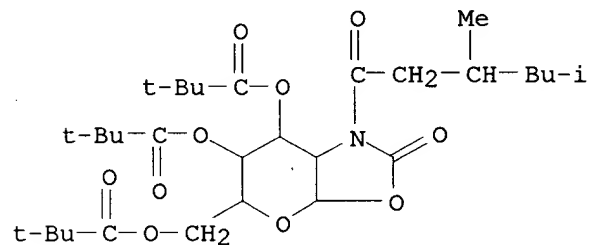
RN 149198-93-6 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylhexyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester (9CI) (CA INDEX NAME)



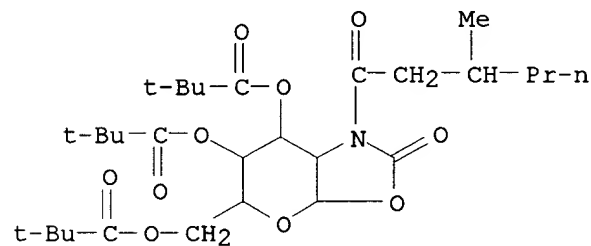
RN 149198-94-7 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-(3,5-dimethyl-1-oxohexyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester (9CI) (CA INDEX NAME)



RN 149198-95-8 CAPLUS

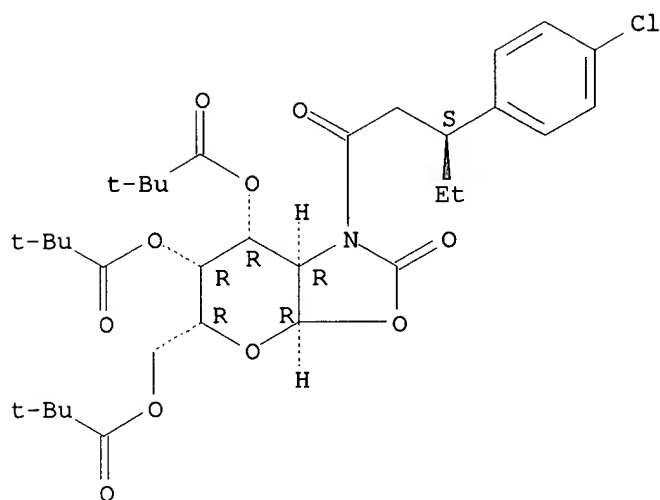
CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(3-methyl-1-oxohexyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester (9CI) (CA INDEX NAME)



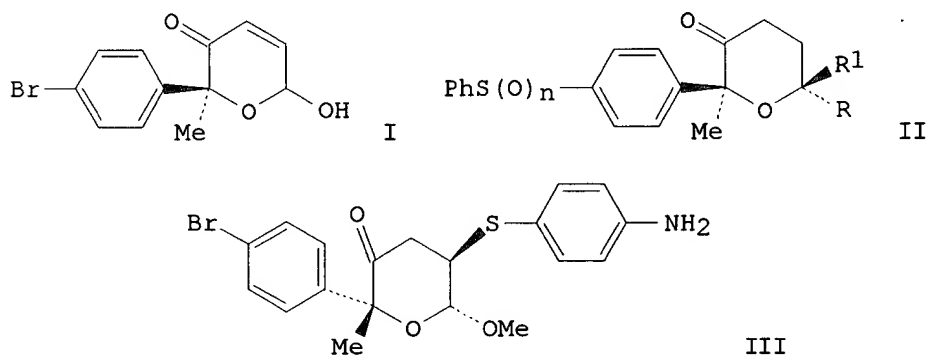
RN 149199-00-8 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-[3-(4-chlorophenyl)-1-oxopentyl]-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*), 3a.alpha., 5.alpha., 6.alpha., 7.alpha., 7a.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L17 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1993:59622 CAPLUS
 DOCUMENT NUMBER: 118:59622
 TITLE: Synthesis and antimicrobial properties of
 2H-pyran-3(6H)-one derivatives and related compounds
 AUTHOR(S): Georgiadis, Minas P.; Couladouros, Elias A.;
 Delitheos, Andreas K.
 CORPORATE SOURCE: Chem. Lab., Agric. Univ. Athens, Athens, 118 55,
 Greece
 SOURCE: J. Pharm. Sci. (1992), 81(11), 1126-31
 CODEN: JPMSAE; ISSN: 0022-3549
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB The synthesis of several derivs. of 2H-pyran-3(6H)-ones and their Michael adducts is described. Thus, 4-BrC₆H₄COMe underwent reaction with furan and oxidative rearrangement to give hydroxypyranone I. Phenylthio, benzenesulfonyl, p-acetylamino benzenesulfonyl, and p-bromophenyl substituents are beneficial for activity against gram-pos. bacteria. [(Phenylthio)phenyl]methylpyranone II (R = H, R₁ = OMe, n = 0) showed a

min. inhibitory concn. of 1.56 .mu.g/mL against Staphylococcus aureus ATCC 2593, and II (R = OCOC₆H₄NO₂-4, R₁ = H, n = 2) showed a min. inhibitory concn. of 0.75 .mu.g/mL against Streptococcus sp. C203M. In general, derivs. of 6-hydroxy-2H-pyran-3(6H)-ones with substituents at C-2 and C-6 showed significant activity against gram-pos. bacteria. More specifically, the bulkier the C-2 substituent, the greater the antibacterial activity. Michael adducts of thiols, e.g., (aminobenzenethio)(bromophenyl)pyranone III, showed activity, which may be due to a retro-Michael reaction. In conclusion, the .alpha.,.beta.-enone system is essential for the activity of 6-hydroxy-2H-pyran-3(6H)-ones, and the size and nature of substituents at C-2 are assocd. with antimicrobial activity.

IT **145415-59-4**

RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(bactericidal activity of)

RN 145415-59-4 CAPLUS

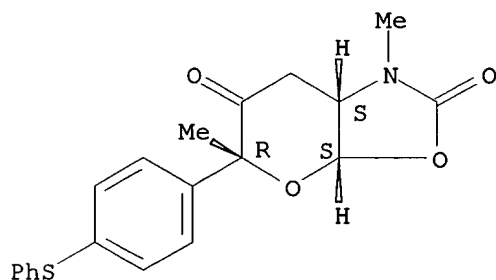
IT **133150-03-5P 145371-64-8P 145371-66-0P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and bactericidal activity of)

RN 133150-03-5 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, dihydro-1,5-dimethyl-5-[4-(phenylthio)phenyl]-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

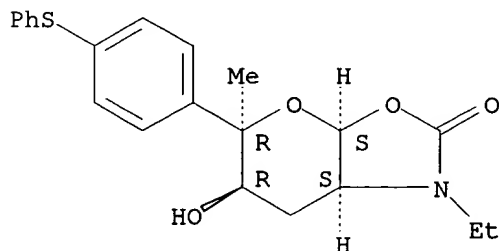
Relative stereochemistry.



RN 145371-64-8 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 1-ethyltetrahydro-6-hydroxy-5-methyl-5-[4-(phenylthio)phenyl]-, (3a.alpha.,5.beta.,6.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

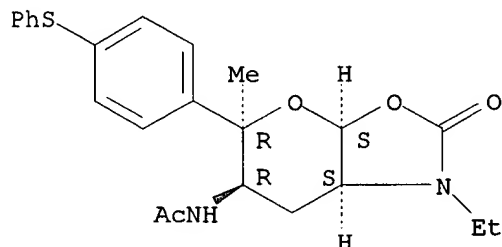
Relative stereochemistry.



RN 145371-66-0 CAPLUS

CN Acetamide, N-[1-ethylhexahydro-5-methyl-2-oxo-5-[4-(phenylthio)phenyl]-5H-pyrano[3,2-d]oxazol-6-yl]-, (3a.alpha.,5.beta.,6.beta.,7a.alpha.)- (9CI)
(CA INDEX NAME)

Relative stereochemistry.

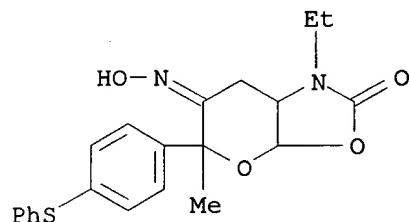


IT 145371-65-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn., acetylation, and bactericidal activity of)

RN 145371-65-9 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-ethyldihydro-5-methyl-5-[4-(phenylthio)phenyl]-, 6-oxime, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)



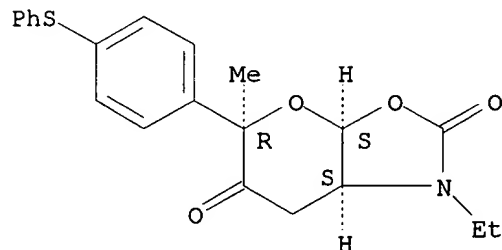
IT 145371-52-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn., bactericidal activity, and condensation of, with hydroxylamine)

RN 145371-52-4 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, 1-ethyldihydro-5-methyl-5-[4-(phenylthio)phenyl]-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L17 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1992:592210 CAPLUS

DOCUMENT NUMBER: 117:192210

TITLE: Syntheses of N-acyl and N-alkoxycarbonyl derivatives of 2-[(alkoxycarbonyl)amino]-2-deoxy-D-glucose.

AUTHOR(S): Lafont, Dominique; Boullanger, Paul

CORPORATE SOURCE: ESCIL, Univ. Lyon I, Villeurbanne, 69622, Fr.

SOURCE: J. Carbohydr. Chem. (1992), 11(5), 567-86

CODEN: JCACDM; ISSN: 0732-8303

DOCUMENT TYPE: Journal

LANGUAGE: English

AB N-Acyl and N-alkoxycarbonyl derivs. of 1,3,4,6-tetra-O-acetyl-2-alkoxycarbonylamino-2-deoxy-.beta.-D-glucopyranose were synthesized using mixed anhydrides and sym. or unsym. pyrocarbonates. These derivs. were used as donors in 1,2-trans-glycosylation reactions promoted by Lewis acids. Besides the expected .beta.-D-glycosides, cyclization and rearrangement side-products were often encountered in such glycosylations.

IT 76548-23-7

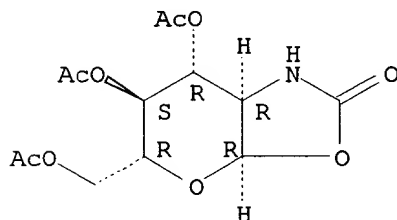
RL: RCT (Reactant)

(allyloxycarbonylation of, with allyl chloroformate)

RN 76548-23-7 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(acetyloxy)-5-[(acetyloxy)methyl]tetrahydro-, [3aR-(3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 143880-97-1P 143881-01-0P

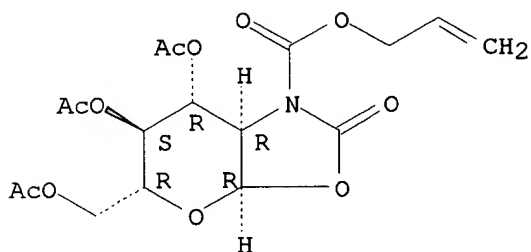
RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of)

RN 143880-97-1 CAPLUS

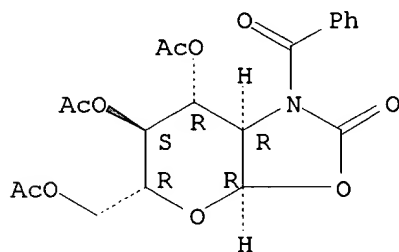
CN 5H-Pyrano[3,2-d]oxazole-1(2H)-carboxylic acid, 6,7-bis(acetyloxy)-5-[(acetyloxy)methyl]tetrahydro-2-oxo-, 2-propenyl ester, [3aR-(3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 143881-01-0 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(acetyloxy)-5-[(acetyloxy)methyl]-
 1-benzoyltetrahydro-, [3aR-(3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.)
]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L17 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1992:571856 CAPLUS
 DOCUMENT NUMBER: 117:171856
 TITLE: Ferric chloride, an anomerization catalyst for the
 preparation of alkyl .alpha.-glycopyranosides
 AUTHOR(S): Ikemoto, Norihiro; Kim, Oak Kyung; Lo, Lee Chiang;
 Satyanarayana, Vunnam; Chang, Maryland; Nakanishi,
 Koji
 CORPORATE SOURCE: Dep. Chem., Columbia Univ., New York, NY, 10027, USA
 SOURCE: Tetrahedron Lett. (1992), 33(30), 4295-8
 CODEN: TELEAY; ISSN: 0040-4039
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 117:171856

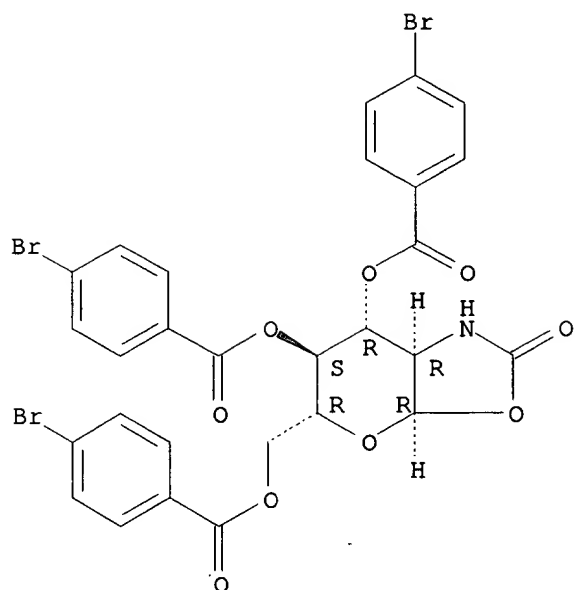
AB Anhyd. FeCl₃ in CH₂Cl₂ has been found to readily anomerize
 .beta.-glycopyranosides to their corresponding .alpha.-anomers in good
 yields and selectivities at room temp. Acetyl- and benzoyl-protected
 oxygen sugars yielded the best results.

IT **143723-22-2P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

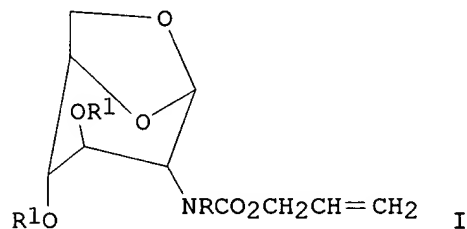
RN 143723-22-2 CAPLUS
 CN Benzoic acid, 4-bromo-, 5-[[[(4-bromobenzoyl)oxy]methyl]hexahydro-2-oxo-5H-
 pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-(3a.alpha.,5.alpha.,6.beta.,7.al
 pha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Examiner Anderson 703-605-1157



L17 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1992:449102 CAPLUS
 DOCUMENT NUMBER: 117:49102
 TITLE: Selective protections on 2-allyloxycarbonylamino-1,6-anhydro-2-deoxy-.beta.-D-glucopyranose
 AUTHOR(S): Bouali, Abderrahime; Boullanger, Paul; Lafont, Dominique; Fenet, Bernard
 CORPORATE SOURCE: ESCIL, Univ. Claude Bernard Lyon I, Villeurbanne, F-69622, Fr.
 SOURCE: Carbohydr. Res. (1992), 228(1), 81-93
 CODEN: CRBRAT; ISSN: 0008-6215
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 117:49102
 GI



AB Regioselective monoacetylation of anhydro-2-deoxy-.beta.-D-glucopyranose I (R = R¹ = H) (II) gave a mixt. of 3-O-acetyl and 4-O-acetyl derivs., the structures of which were established by two-dimensional, phase-sensitive NOESY and confirmed by chem. proofs. Benzylation of II, on the other hand, led to I [R = H (III), CH₂Ph (IV), R¹ = CH₂Ph]. The regioselective

cleavage of III with TiCl_4 gave the expected 3-O-benzyl deriv., the structure of which was ascertained by chem. proofs; the same reaction performed on IV led to the opening of the anhydro ring to afford 3-benzyl-[3,4-di-O-benzyl-1,2-dideoxy-.alpha.-D-glucopyrano]-[2,1-d]-2-oxazolidone.

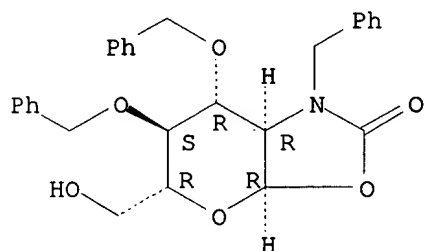
IT **142269-97-4P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 142269-97-4 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, tetrahydro-5-(hydroxymethyl)-6,7-bis(phenylmethoxy)-1-(phenylmethyl)-, [3aR-(3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L17 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1992:449098 CAPLUS

DOCUMENT NUMBER: 117:49098

TITLE: A bicyclic carbohydrate oxazolidinone template for stereoselective 1,4-additions of organoaluminum chlorides to unsaturated carboxylic acid derivatives

AUTHOR(S): Rueck, Karola; Kunz, Horst

CORPORATE SOURCE: Inst. Org. Chem., Univ. Mainz, Mainz, D-6500, Germany

SOURCE: Synlett (1992), (4), 343-4

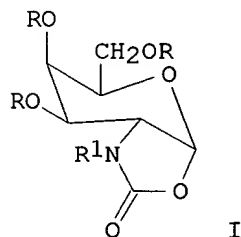
CODEN: SYNLES; ISSN: 0936-5214

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 117:49098

GI



AB The radical 1,4-addn. of Me_2AlCl and the polar 1,4-addn. of higher dialkylaluminum chlorides to .alpha.,.beta.-unsatd. carboxylic acid derivs., e.g. I ($\text{R} = \text{Me}_3\text{CCO}$, $\text{R}_1 = \text{CH:CHR}_2$, $\text{R}_2 = \text{Me, Ph}$), are achieved with high stereoselectivity by using a bicyclic carbohydrate oxazolidinone I

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(R1 = H) derived from galactosamine as the chiral auxiliary.

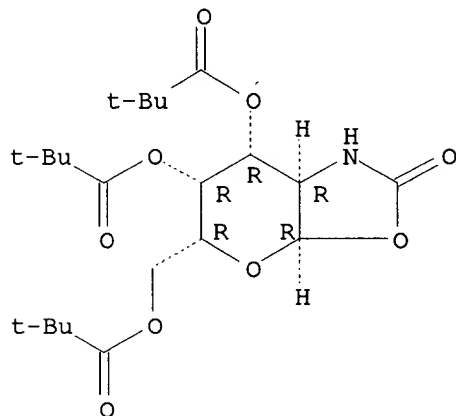
IT **142061-31-2**

RL: RCT (Reactant)
(amidation of)

RN 142061-31-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-(3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **142061-32-3P 142061-33-4P**

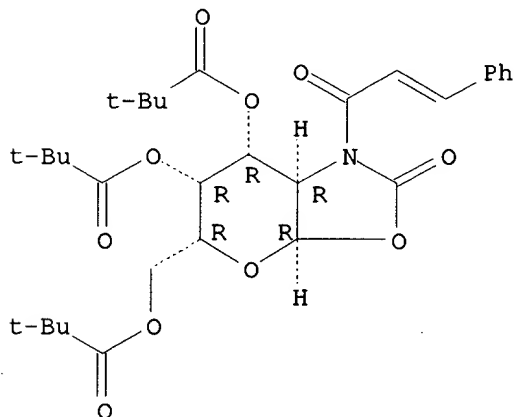
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and stereoselective addn. reaction of, with dialkylaluminum chloride)

RN 142061-32-3 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenyl-2-propenyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-(3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

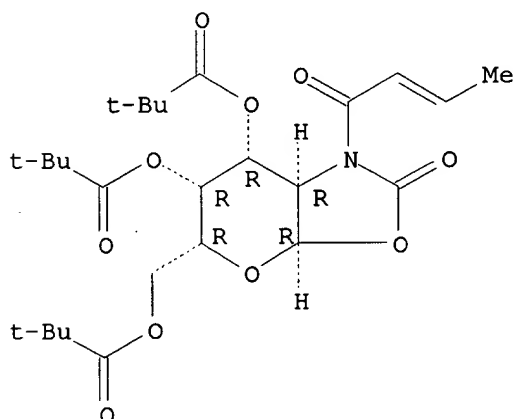
Double bond geometry unknown.



RN 142061-33-4 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-2-butenyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-(3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



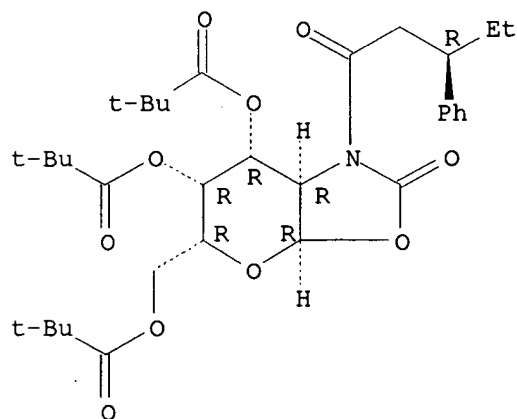
IT 142061-34-5P 142061-35-6P 142061-36-7P
142061-37-8P 142061-38-9P 142061-39-0P
142061-40-3P 142130-62-9P 142130-63-0P
142130-64-1P 142130-65-2P 142130-66-3P
142130-67-4P 142184-87-0P

RL: SPN (Synthetic preparation); PREP (Preparation).
(prepn. of)

RN 142061-34-5 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylpentyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

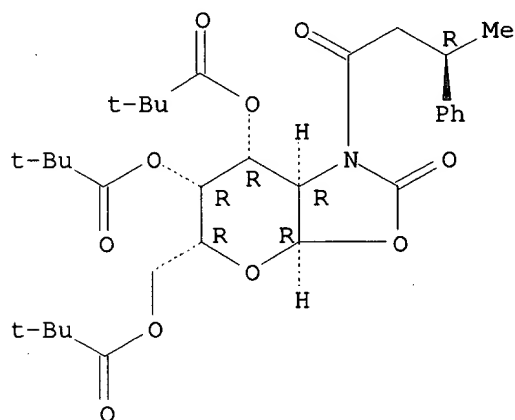


Examiner Anderson 703-605-1157

RN 142061-35-6 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylbutyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

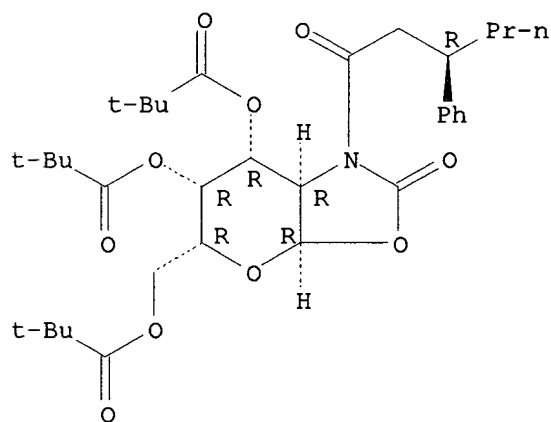
Absolute stereochemistry.



RN 142061-36-7 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylhexyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

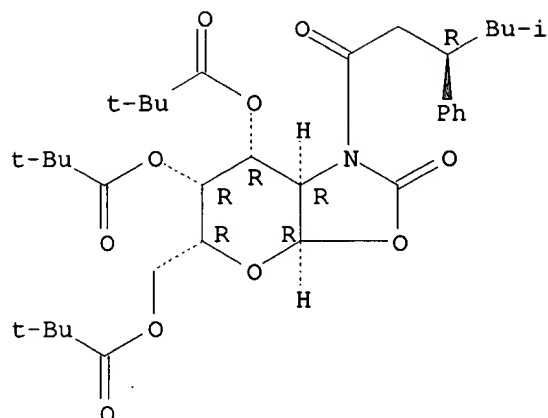


RN 142061-37-8 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(5-methyl-1-oxo-3-phenylhexyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

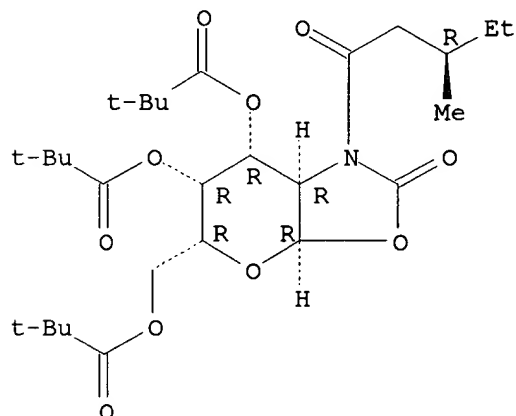
Examiner Anderson 703-605-1157



RN 142061-38-9 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(3-methyl-1-oxopentyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

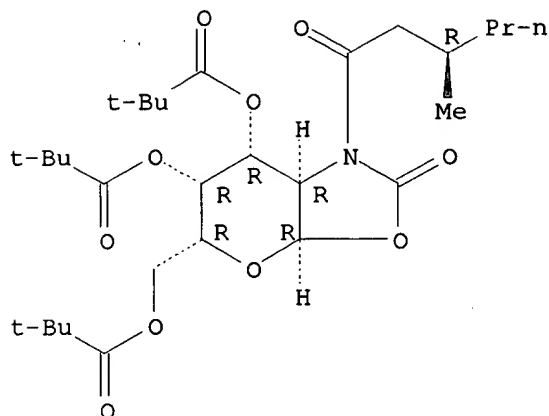
Absolute stereochemistry.



RN 142061-39-0 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(3-methyl-1-oxohexyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

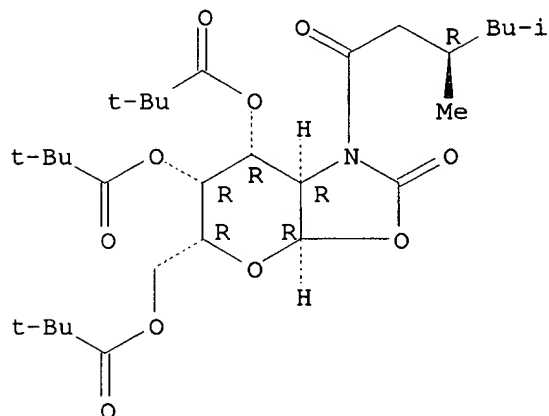
Absolute stereochemistry.



RN 142061-40-3 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-(3,5-dimethyl-1-oxohexyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(R*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]-(9CI) (CA INDEX NAME)

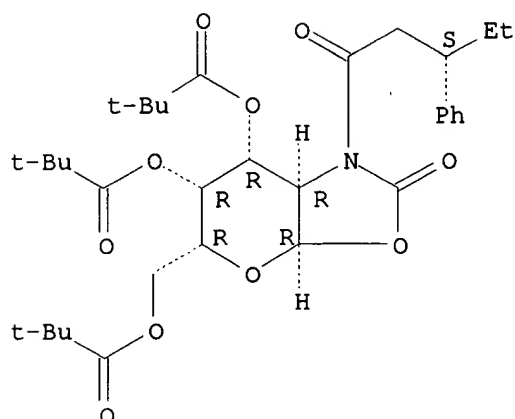
Absolute stereochemistry.



RN 142130-62-9 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylpentyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]-(9CI) (CA INDEX NAME)

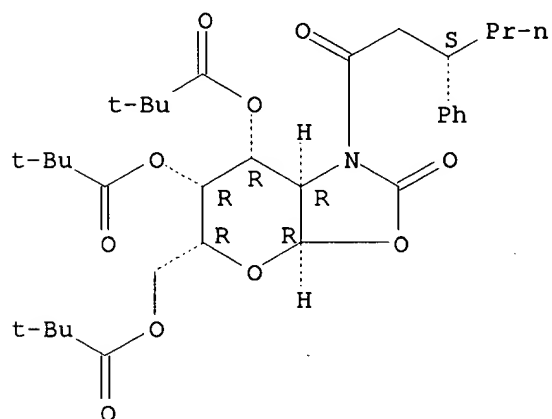
Absolute stereochemistry.



RN 142130-63-0 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylhexyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

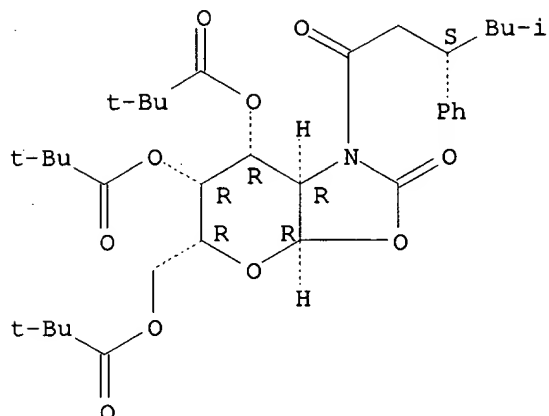
Absolute stereochemistry.



RN 142130-64-1 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(5-methyl-1-oxo-3-phenylhexyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

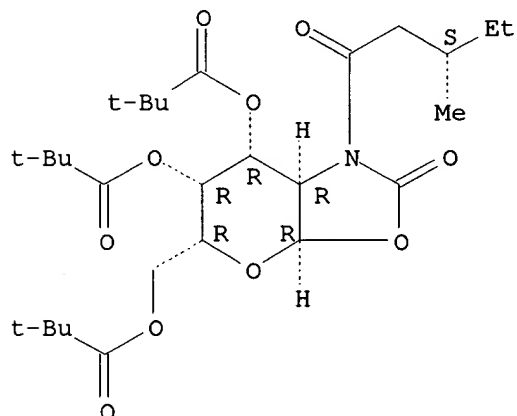
Absolute stereochemistry.



RN 142130-65-2 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(3-methyl-1-oxopentyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

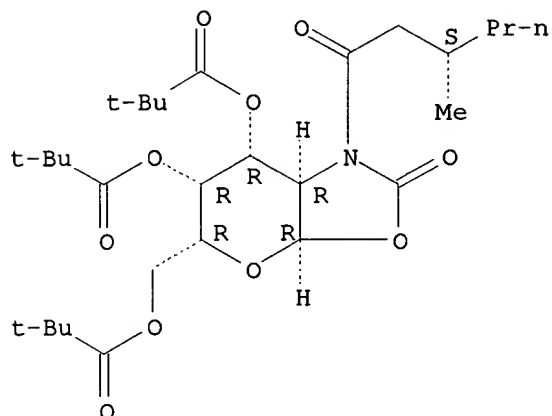
Absolute stereochemistry.



RN 142130-66-3 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-1-(3-methyl-1-oxohexyl)-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]- (9CI) (CA INDEX NAME)

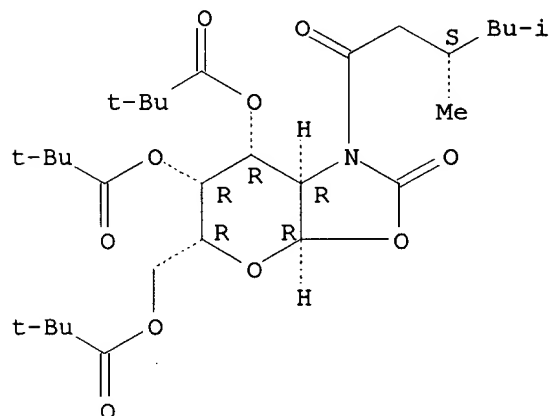
Absolute stereochemistry.



RN 142130-67-4 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 1-(3,5-dimethyl-1-oxohexyl)-5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]-(9CI) (CA INDEX NAME)

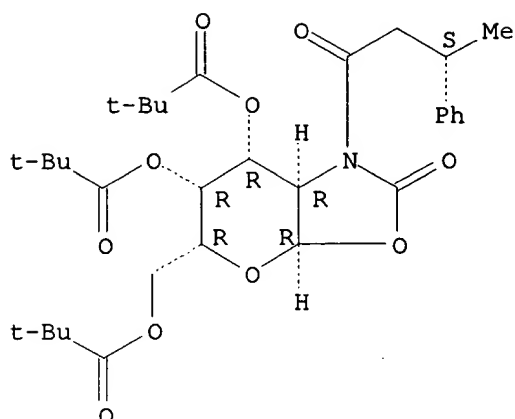
Absolute stereochemistry.



RN 142184-87-0 CAPLUS

CN Propanoic acid, 2,2-dimethyl-, 5-[(2,2-dimethyl-1-oxopropoxy)methyl]hexahydro-2-oxo-1-(1-oxo-3-phenylbutyl)-5H-pyrano[3,2-d]oxazole-6,7-diyl ester, [3aR-[1(S*),3a.alpha.,5.alpha.,6.alpha.,7.alpha.,7a.alpha.]]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L17 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1991:185332 CAPLUS

DOCUMENT NUMBER: 114:185332

TITLE: Stereoselective ring closure of 6-
 {[(methylamino) carbonyl] oxy} -2H-pyran-3(6H)-ones.

Formation of the 5H-pyrano[3,2-d]oxazole-2,6-dione

Georgiadis, Minas P.; Couladouros, Elias A.

CORPORATE SOURCE: Chem. Lab., Agric. Univ. Athens, Athens, 11855, Greece

SOURCE: J. Heterocycl. Chem. (1990), 27(6), 1757-60

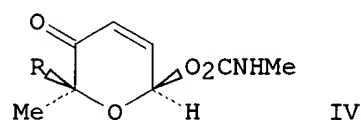
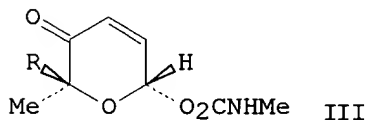
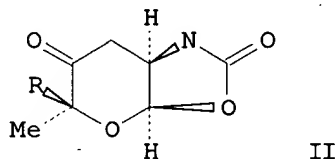
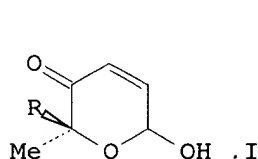
CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 114:185332

GI



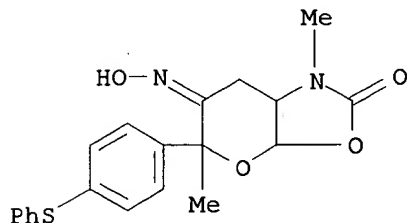
AB The treatment of anomeric mixts. of pyranones [I; R = p-(PhS)C₆H₄ and p-(PhSO₂)C₆H₄] with MeNCO results in the formation of pyranooxazolidiones (II) from the .alpha.-anomers of (I) and methylamino derivs. (III) from the .beta.-anomers of (I). (II) are apparently formed by an intramol. endo-Michael addn. of intermediates (IV). The treatment of (III) with Et₃N results in its isomerization and the quant. formation of (II). Thus, (II) can be obtained from (I) in 2 steps with high overall yield. The outcome of the same reaction of (I; R = H) is also examd.

IT 133150-06-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and reductive acetylation of)

RN 133150-06-8 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, dihydro-1,5-dimethyl-5-[4-(phenylthio)phenyl]-, 6-oxime, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)



IT 133150-05-7P 133150-07-9P 133150-10-4P

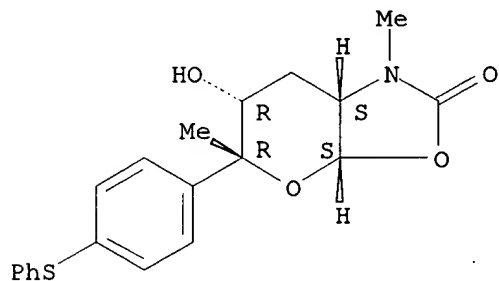
133268-29-8P 133268-30-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 133150-05-7 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, tetrahydro-6-hydroxy-1,5-dimethyl-5-[4-(phenylthio)phenyl]-, (3a.alpha.,5.beta.,6.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

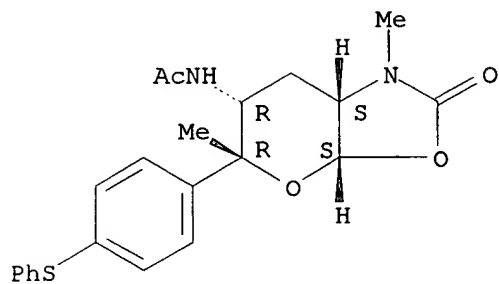
Relative stereochemistry.



RN 133150-07-9 CAPLUS

CN Acetamide, N-[hexahydro-1,5-dimethyl-2-oxo-5-[4-(phenylthio)phenyl]-5H-pyrano[3,2-d]oxazol-5-yl]-, (3a.alpha.,5.beta.,6.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

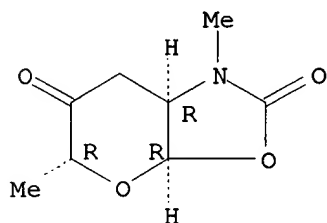
Relative stereochemistry.



RN 133150-10-4 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, dihydro-1,5-dimethyl-, (3a.alpha.,5.alpha.,7a.alpha.)- (9CI) (CA INDEX NAME)

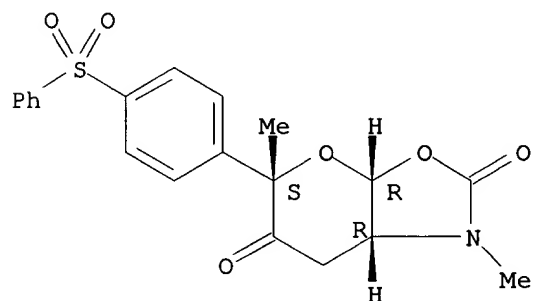
Relative stereochemistry.



RN 133268-29-8 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, dihydro-1,5-dimethyl-5-[4-(phenylsulfonyl)phenyl]-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

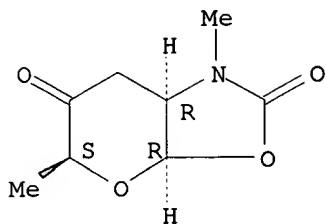
Relative stereochemistry.



RN 133268-30-1 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, dihydro-1,5-dimethyl-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



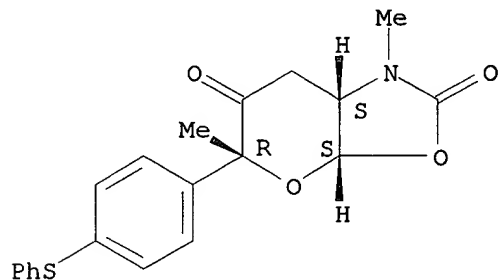
IT 133150-03-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn., redn. and reaction of, with hydroxylamine hydrochloride)

RN 133150-03-5 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, dihydro-1,5-dimethyl-5-[4-(phenylthio)phenyl]-, (3a.alpha.,5.beta.,7a.alpha.)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L17 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1990:612512 CAPLUS

DOCUMENT NUMBER: 113:212512

TITLE: The use of N-alkoxycarbonyl derivatives of 2-amino-2-deoxy-D-glucose as donors in glycosylation reactions

AUTHOR(S): Boullanger, Paul; Jouineau, Martine; Bouammali, Boufelja; Lafont, Dominique; Descotes, Gerard
CORPORATE SOURCE: Lab. Chim. Org. II, Univ. Lyon I, Villeurbanne, F-69622, Fr.

SOURCE: Carbohydr. Res. (1990), 202, 151-64
CODEN: CRBRAT; ISSN: 0008-6215

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:212512

AB 1,3,4,6-Tetra-O-acetyl-2-alkoxycarbonylamino-2-deoxy-.beta.-D-glucopyranoses and 3,4,6-tri-O-acetyl-2-alkoxycarbonylamino-2-deoxypyranosyl bromides were used as donors in glycosylation reactions with model alcs. .beta.-Glycosides were obtained in good yields and with a high degree of 1,2-trans stereoselectivity. An oxazolidinone was formed as the main product from the reaction of some of the glucopyranosyl bromides with alcs. of low reactivity, but the formation of all products could be interpreted by a strong participation of the alkoxycarbonylamino group.

Examiner Anderson 703-605-1157

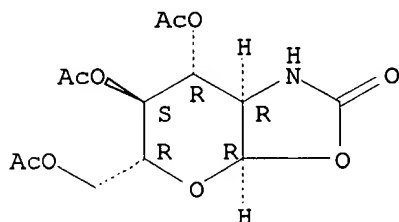
IT 76548-23-7P

RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, during glycosylation by (alkoxycarbonyl)aminodeoxyglucopyranose bromides)

RN 76548-23-7 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(acetyloxy)-5-
[(acetyloxy)methyl]tetrahydro-, [3aR-(3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L17 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1989:458212 CAPLUS

DOCUMENT NUMBER: 111:58212

TITLE: A novel glycosylation reaction of 2-amino-2-deoxy-D-glucopyranose using dimethylphosphinothioate

AUTHOR(S): Inazu, Toshiyuki; Yamanoi, Takashi

CORPORATE SOURCE: Noguchi Inst., Tokyo, 173, Japan

SOURCE: Chem. Lett. (1989), (1), 69-72

CODEN: CMLTAG; ISSN: 0366-7022

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 111:58212

AB .beta.-Glucosides were stereoselectively obtained in good yields from 3,4,6-tri-O-benzyl-2-benzyloxycarbonylamino-2-deoxy-.alpha.-D-glucopyranosyl dimethylphosphinothioate with several alcs. in the presence of iodine and a catalytic amt. of trityl or perchlorate salts.

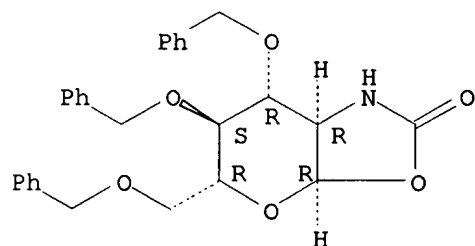
IT 121682-66-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 121682-66-4 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, tetrahydro-6,7-bis(phenylmethoxy)-5-
[(phenylmethoxy)methyl]-, [3aR-(3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

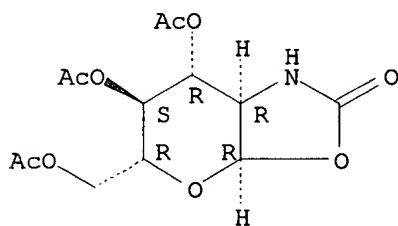


Examiner Anderson 703-605-1157

L17 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1988:94857 CAPLUS
 DOCUMENT NUMBER: 108:94857
 TITLE: N-Allyloxycarbonyl derivatives of D-glucosamine as promoters of 1,2-trans-glucosylation in Koenigs-Knorr reactions and in Lewis acid-catalyzed condensations
 AUTHOR(S): Boullanger, Paul; Banoub, Joseph; Descotes, Gerard
 CORPORATE SOURCE: Ec. Super. Chim. Ind., Univ. Lyon I, Villeurbanne, 69622, Fr.
 SOURCE: Can. J. Chem. (1987), 65(6), 1343-8
 CODEN: CJCHAG; ISSN: 0008-4042
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 108:94857
 AB 3,4,6-Tri-O-acetyl-2-N-allyloxycarbonyl-2-amino-2-deoxy-.alpha.-D-glucopyranosyl bromide and 1,3,4,6-tetra-O-acetyl-2-N-allyloxycarbonyl-2-amino-2-deoxy-.beta.-D-glucopyranose were used in Koenigs-Knorr reactions or Lewis acid-catalyzed glycosidations, resp. Glucosides of simple alcs. and disaccharides were prepd. in good to excellent yields. The N-allyloxycarbonyl protective group was, easy to remove with Pd(0) complexes, affording, after acetylation, the N-acetyl-.beta.-D-glucosamine glucosides under very smooth conditions.
 IT **76548-23-7P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 76548-23-7 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(acetyloxy)-5-[(acetyloxy)methyl]tetrahydro-, [3aR-(3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

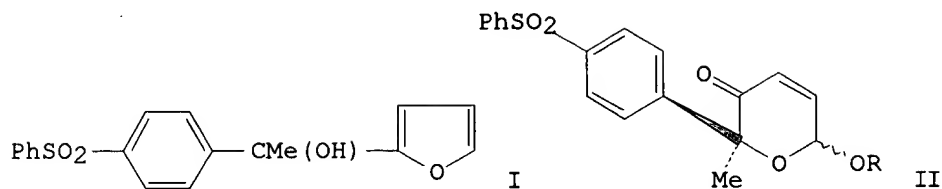


L17 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1982:455639 CAPLUS
 DOCUMENT NUMBER: 97:55639
 TITLE: Products from furans. 3. Crystal and molecular structure, proton nuclear magnetic resonance, and conformational studies of 2-methyl-2-aryl-substituted 6-hydroxy-2H-pyran-3(6H)-one derivatives
 AUTHOR(S): Georgiadis, Minas P.; Couladouros, Elias A.; Polissiou, Moschos G.; Filippakis, S. E.; Mentzafos, D.; Terzis, A.
 CORPORATE SOURCE: Chem. Lab., Agric. Univ. Athens, Athens, Greece
 SOURCE: J. Org. Chem. (1982), 47(16), 3054-8
 CODEN: JOCEAH; ISSN: 0022-3263

Examiner Anderson 703-605-1157

DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



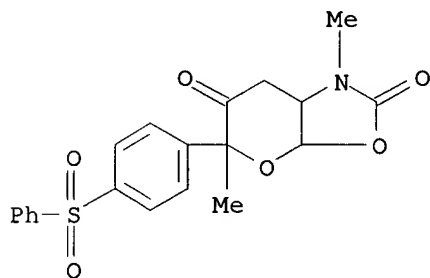
AB Treating p-PhSO₂C₆H₄COMe with 2-furyllithium gave furan I, which underwent ring expansion when treated with m-ClC₆H₄C(O)OOH to give 20% cis- and 80% trans-II (R = H). Treating II (R = H) with MeI gave II (R = Me); using MeNCO gave II (R = MeNHCO). Crystal structures showed that the p-PhSO₂C₆H₄ group in trans-II (R = MeNHCO) and cis-II (R = Me) has a pseudo axial orientation relative to the 6-substituent; both II have a sofa configuration. PMR vicinal and allylic coupling consts. of II and related compds. are correlated, and ambiguities in their use for direct configurational assignment are clarified. A new equation of the Karplus-Garbisch type is also given which correlates these coupling consts. with the dihedral angle between the vinyl and allylic H bonds. The conformational equil. of II is discussed.

IT **81830-87-7P**

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 81830-87-7 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, dihydro-1,5-dimethyl-5-[4-(phenylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



L17 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1981:192611 CAPLUS

DOCUMENT NUMBER: 94:192611

TITLE: Structures of the decomposition products of chlorozotocin: new intramolecular carbamates of 2-amino-2-deoxyhexoses

AUTHOR(S): Hammer, Charles F.; Loranger, Richard A.; Schein, Philip S.

CORPORATE SOURCE: Dep. Chem., Georgetown Univ., Washington, DC, 20057, USA

Examiner Anderson 703-605-1157

SOURCE: J. Org. Chem. (1981), 46(8), 1521-31
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Six intramol. five-membered-ring carbamate sugars were obtained from the decompn. of chlorozotocin (I) in phosphate and triethylammonium bicarbonate buffers at pH 7.4. Their mol. structures [II, III, IV (R = H, R1 = OH; R = OH, R1 H), V, and VI] were proved by spectroscopic methods and chem. inference. VI may exist as its open chain aldehyde hydrate.

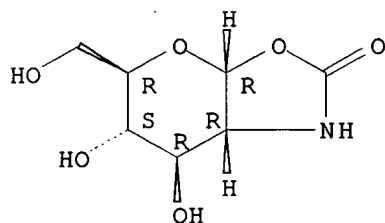
IT 7103-39-1

RL: RCT (Reactant)
 (decompn. product of chlorozotocin)

RN 7103-39-1 CAPLUS

CN .alpha.-D-Glucopyranose, 2-(carboxyamino)-2-deoxy-, intramol. 2,1-ester
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.

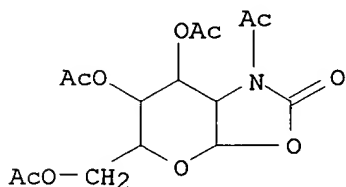


IT 76481-07-7P 76548-23-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and NMR of)

RN 76481-07-7 CAPLUS

CN .alpha.-D-Glucopyranose, 2-(acetylcarboxyamino)-2-deoxy-, intramol.
 2,1-ester, 3,4,6-triacetate (9CI) (CA INDEX NAME)

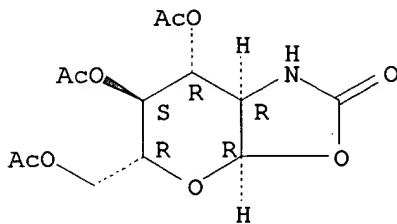


RN 76548-23-7 CAPLUS

CN 5H-Pyrano[3,2-d]oxazol-2(1H)-one, 6,7-bis(acetyloxy)-5-
 [(acetyloxy)methyl]tetrahydro-, [3aR-(3a.alpha.,5.alpha.,6.beta.,7.alpha.,
 7a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Examiner Anderson 703-605-1157

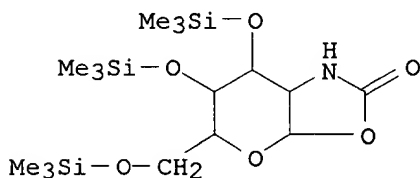


IT 76481-06-6P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and mass spectrum of)

RN 76481-06-6 CAPLUS

CN .alpha.-D-Glucopyranose, 2-(carboxyamino)-2-deoxy-3,4,6-tris-O-
(trimethylsilyl)-, intramol. 2,1-ester (9CI) (CA INDEX NAME)



L17 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1980:514255 CAPLUS

DOCUMENT NUMBER: 93:114255

TITLE: A new 7-ring cycloaddition reaction

AUTHOR(S): Hendrickson, James B.; Farina, James S.

CORPORATE SOURCE: Edison Chem. Lab., Brandeis Univ., Waltham, MA, 02254, USA

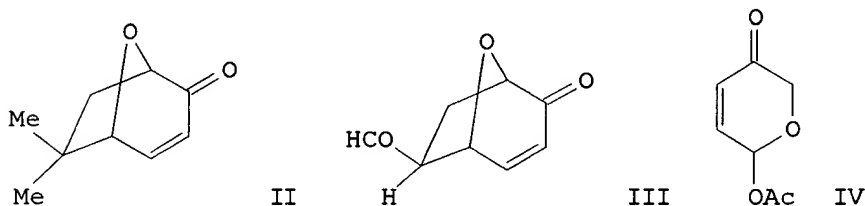
SOURCE: J. Org. Chem. (1980), 45(16), 3359-61

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

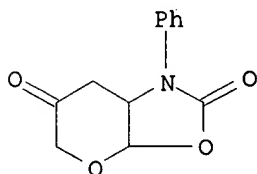
LANGUAGE: English

GI

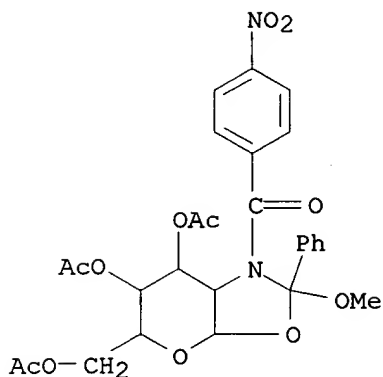


AB The pyrolysis of 2-acetoxy-1-oxacyclohex-3-en-5-one (I) in the presence of active dienophiles yields oxygen-bridged cycloheptenone adducts, e.g., II or III. The precursor IV is made from furfuryl alc. by bromination, hydrolysis and acetylation and is presumed to lose HOAc on pyrolysis to

give the active reagent, 3-oxopyrylium, for cycloaddn.
 IT **74019-33-3P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, in synthesis of epoxycycloheptafurans)
 RN 74019-33-3 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,3aH)-dione, dihydro-1-phenyl- (9CI) (CA INDEX NAME)



L17 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1976:105996 CAPLUS
 DOCUMENT NUMBER: 84:105996
 TITLE: Preparative and exploratory carbohydrate chemistry.
 Chemistry of the glycosidic linkage.
 2-Alkoxy-3-(p-nitrobenzoyl)-2-phenyl-4,5-[.alpha.-D-glucopyrano]-2-oxazolidines, a new class of carbohydrate 1,2-ortho-acid derivative
 AUTHOR(S): Hanessian, Stephen; Cassinelli, Giuseppe; Casey, Michael
 CORPORATE SOURCE: Dep. Chem., Univ. Montreal, Montreal, Que., Can.
 SOURCE: Carbohydr. Res. (1975), 44(2), C18-C21
 CODEN: CRBRAT
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Treatment of oxazoline I with p-O2NC6H4COCl in CH2Cl2 1-2 days at 25.degree. followed by addn. of pyridine and MeOH 2 hr at 25.degree. gave a mixt. contg. 70% II (R = Me, R1 = Ac) and 20% III (R = Me). Analogously obtained was II (R = Me2CH, R1 = Ac) which underwent acid-catalyzed rearrangement to give 50% III (R = Me2CH). I treated with p-O2NC6H4COCl followed by 1,2:3,4-di-O-isopropylidene-.alpha.-D-galactopyranose gave an oxazolidine deriv. which was rearranged to 67% IV (R = p-O2NC6H4CO) which was hydrolyzed to give IV (R = H).
 IT **58510-47-7P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and hydrolysis of)
 RN 58510-47-7 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazole-6,7-diol, 5-[(acetyloxy)methyl]hexahydro-2-methoxy-1-(4-nitrobenzoyl)-2-phenyl-, diacetate (ester) (9CI) (CA INDEX NAME)

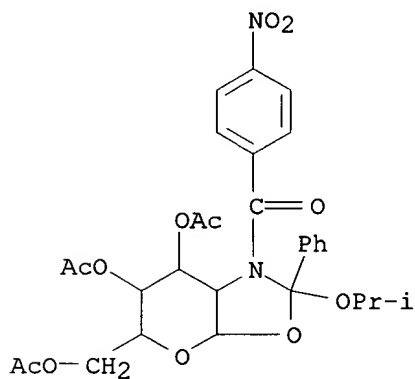


IT 58510-51-3P 58568-98-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and rearrangement of)

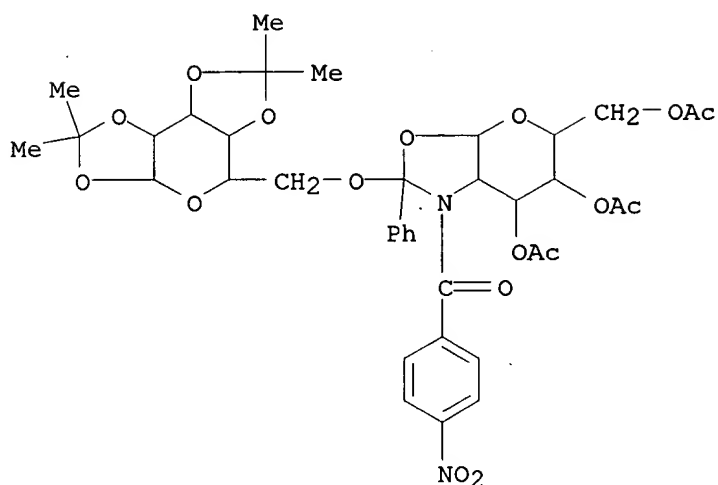
RN 58510-51-3 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-6,7-diol, 5-[(acetyloxy)methyl]hexahydro-2-(1-methylethoxy)-1-(4-nitrobenzoyl)-2-phenyl-, diacetate (ester) (9CI) (CA INDEX NAME)



RN 58568-98-2 CAPLUS

CN .alpha.-D-Galactopyranose, 6-O-[6,7-bis(acetyloxy)-5-[(acetyloxy)methyl]hexahydro-1-(4-nitrobenzoyl)-2-phenyl-5H-pyrano[3,2-d]oxazol-2-yl]-1,2:3,4-bis-O-(1-methylethylidene)-, [2R-(2.alpha.,3a.alpha.,5.alpha.,6.beta.,7.alpha.,7a.alpha.)]- (9CI) (CA INDEX NAME)

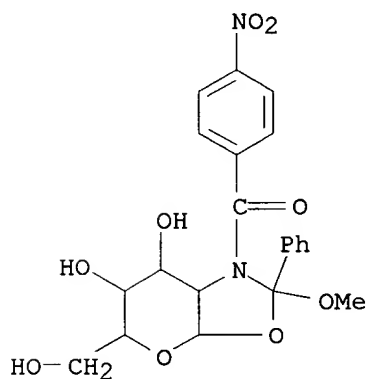


IT 58510-49-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn., acetylation and solvolysis of)

RN 58510-49-9 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-6,7-diol, hexahydro-5-(hydroxymethyl)-2-methoxy-1-(4-nitrobenzoyl)-2-phenyl- (9CI) (CA INDEX NAME)



L17 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1972:140773 CAPLUS

DOCUMENT NUMBER: 76:140773

TITLE: Fungicidal and amebicidal pyrano[3,2-d]oxazole derivatives

INVENTOR(S): Laliberte, Real

PATENT ASSIGNEE(S): Ayerst, McKenna and Harrison Ltd.

SOURCE: U.S., 4 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

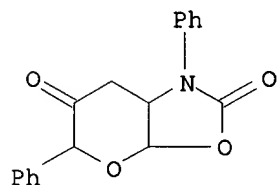
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

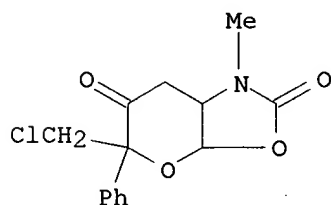
PATENT INFORMATION:

Examiner Anderson 703-605-1157

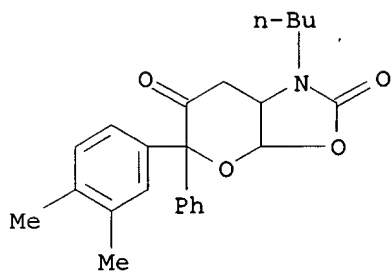
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 3631175	A	19711228	US 1970-28540	19700414
GI	For diagram(s), see printed CA Issue.				
AB	Furan was treated with BuLi and RR1CO [BzH, PhCOCH2Cl, 3,4-Me2C6H3COPh, p-PhCH2OC6H4-CHO, PhCH2COPh, PhCH(OH)COPh, Ph2CHCHO, p-PhC6H4-COMe, p-PhC6H4COEt, p-PhC6H4COPr, p-(p-ClC6H4)C6H4CO-Me] to give hydroxypyranones (I) (R2 = H); esterification with R3NCO (R3 = Ph, Me, Et, Pr, Bu, p-ClC6H4) gave carbamates (I, R2 = CONHR3) (II), which with and without isolation were cyclized by refluxing in C6H6 to give III. II had coccidiostatic activity.				
IT	36067-37-5P 36067-38-6P 36067-39-7P 36067-40-0P 36067-41-1P 36067-42-2P 36067-43-3P 36067-44-4P 36067-45-5P 36067-46-6P 36067-47-7P 36067-48-8P 36067-49-9P 36067-50-2P 36067-51-3P 36067-52-4P 36067-53-5P 36275-08-8P RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)				
RN	36067-37-5 CAPLUS				
CN	5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, dihydro-1,5-diphenyl- (9CI) (CA INDEX NAME)				



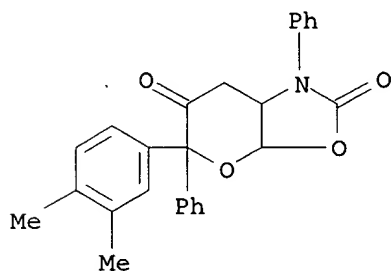
RN 36067-38-6 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, 5-(chloromethyl)dihydro-1-methyl-5-phenyl- (9CI) (CA INDEX NAME)



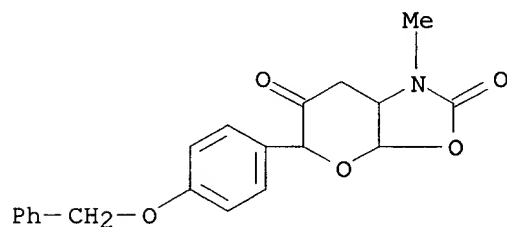
RN 36067-39-7 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, 1-butyl-5-(3,4-dimethylphenyl)dihydro-5-phenyl- (9CI) (CA INDEX NAME)



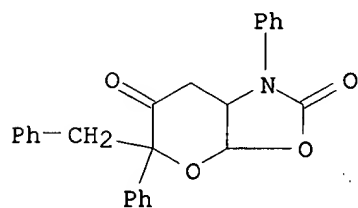
RN 36067-40-0 CAPLUS
CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, 5-(3,4-dimethylphenyl)dihydro-1,5-diphenyl- (9CI) (CA INDEX NAME)



RN 36067-41-1 CAPLUS
CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, dihydro-1-methyl-5-[4-(phenylmethoxy)phenyl]- (9CI) (CA INDEX NAME)

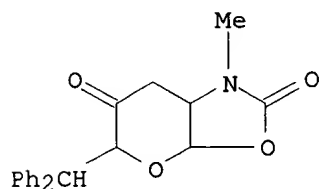


RN 36067-42-2 CAPLUS
CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, dihydro-1,5-diphenyl-5-(phenylmethyl)- (9CI) (CA INDEX NAME)



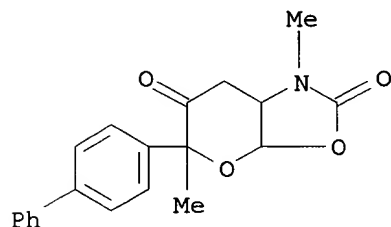
RN 36067-43-3 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, 5-(diphenylmethyl)dihydro-1-methyl- (9CI) (CA INDEX NAME)



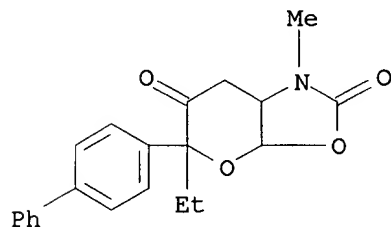
RN 36067-44-4 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, 5-[1,1'-biphenyl]-4-yl-dihydro-1,5-dimethyl- (9CI) (CA INDEX NAME)



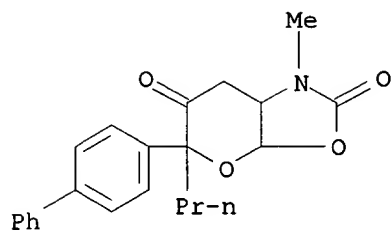
RN 36067-45-5 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, 5-[1,1'-biphenyl]-4-yl-5-ethyl-dihydro-1-methyl- (9CI) (CA INDEX NAME)

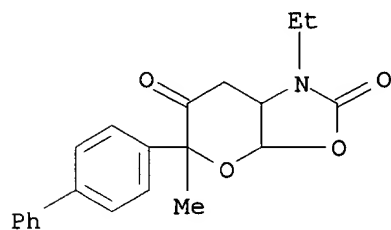


RN 36067-46-6 CAPLUS

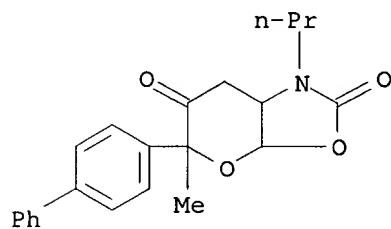
CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione,, 5-[1,1'-biphenyl]-4-yl-dihydro-1-methyl-5-propyl- (9CI) (CA INDEX NAME)



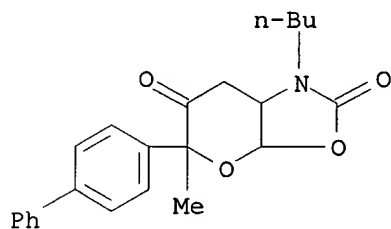
RN 36067-47-7 CAPLUS
CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, 5-[1,1'-biphenyl]-4-yl-1-ethylidihydro-5-methyl- (9CI) (CA INDEX NAME)



RN 36067-48-8 CAPLUS
CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, 5-[1,1'-biphenyl]-4-yl-1-ethylidihydro-5-methyl-1-propyl- (9CI) (CA INDEX NAME)

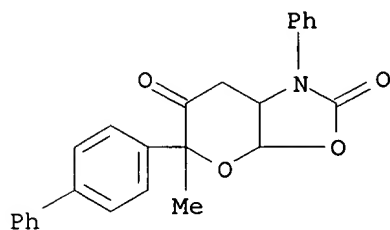


RN 36067-49-9 CAPLUS
CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, 5-[1,1'-biphenyl]-4-yl-1-ethylidihydro-5-methyl-1-butyl- (9CI) (CA INDEX NAME)



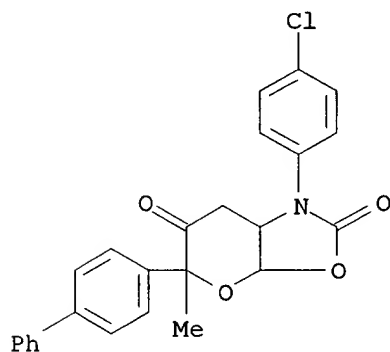
RN 36067-50-2 CAPLUS
CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, 5-[1,1'-biphenyl]-4-yl-1-ethylidihydro-5-

methyl-1-phenyl- (9CI) (CA INDEX NAME)



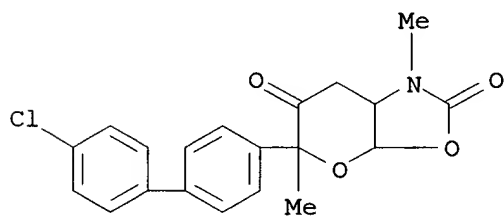
RN 36067-51-3 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, 5-[1,1'-biphenyl]-4-yl-1-(4-chlorophenyl)dihydro-5-methyl- (9CI) (CA INDEX NAME)



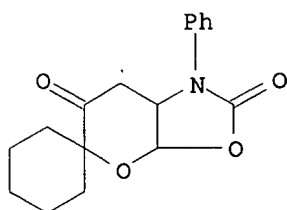
RN 36067-52-4 CAPLUS

CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, 5-(4'-chloro[1,1'-biphenyl]-4-yl)dihydro-1,5-dimethyl- (9CI) (CA INDEX NAME)

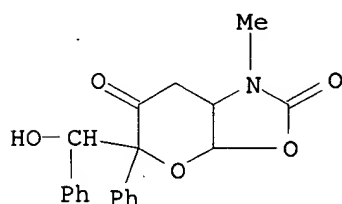


RN 36067-53-5 CAPLUS

CN Spiro[cyclohexane-1,5'-[5H]pyrano[3,2-d]oxazole]-2',6'(1'H,3'aH)-dione, dihydro-1'-phenyl- (9CI) (CA INDEX NAME)



RN 36275-08-8 CAPLUS
 CN 5H-Pyrano[3,2-d]oxazole-2,6(1H,7H)-dione, 3a,7a-dihydro-5-(hydroxyphenylmethyl)-1-methyl-5-phenyl- (9CI) (CA INDEX NAME)



L17 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1967:18783 CAPLUS

DOCUMENT NUMBER: 66:18783

TITLE: Structure of the alkaloids fruticosine and

AUTHOR(S): fruticosamine and their synthesis from kopsine
 Guggisberg, A.; Hesse, Manfred; Von Philipsborn,
 Wolfgang; Nagarajan, Kuppuswamy; Schmid, Hans

CORPORATE SOURCE: Univ. Zurich, Zurich, Switz.

SOURCE: Helv. Chim. Acta (1966), 49(7), 2321-37

CODEN: HCACAV

DOCUMENT TYPE: Journal

LANGUAGE: German

GI For diagram(s), see printed CA Issue.

AB Structures I (R1 = OH, R2 = H, R3 = H2, R4 = O) (II) and I (R1 = H, R2 = OH, R3 = H2, R4 = O) (III) are proposed for fruticosine and fruticosamine, resp., on the basis of degradative, spectral, and synthetic evidence. Thus, a soln. of 100 mg. II in 2 ml. dry C5H5N was kept 2.5 days at 20.degree. with a mixt. of 100 mg. CrO3 and 3 ml. C5H5N to give 80 mg. oxofruticosine (I, R1 = OH, R2 = H, R3 = R4 = O) (IV), m. 215-18.degree. (decompn.) (MeOH-Et2O), shown to contain a 5-membered cyclic lactam by its ir spectrum. II and III were not oxidized by CrO3-AcOH. II (134 mg.) was mixed with 4 ml. Me2SO and 2.6 ml. Ac2O and kept 40 hrs. at 20.degree. to give 100 mg. diketone (V), m. 203-5.degree. after sublimation at 130-50.degree./0.0001 mm. A mixt. of 22 mg. V, 10 ml. aq. MeOH, and excess NaBH4 kept 1 hr. at 20.degree. gave 3 mg. III, 17 mg. II, and .apprx.5% dihydrofruticosamine (I, R1 = OH, R2 = H, R3 = H2, R4 = H,OH) (VI), m. 245.degree. (decompn.). VI was also prepd. by redn. of III with NaBH4-CaCl2. A soln. of 119 mg. V in 30 ml. abs. MeOH was satd. with dry HCl and refluxed 1 hr. to give 82% chanofruticosine methyl ester (VII), which gave an indefinite m.p. It was distd. at 160.degree./0.001 mm.; [.alpha.] 25 D 98.3.degree. (c 0.871, CHCl3). VII was also prepd. by treatment of III with Me2SO-Ac2O. A soln. of 22 mg. VII in 10 ml. 90% MeOH-H2O kept 1 hr. at 20.degree. with excess NaBH4 gave 15.3 mg. VIII, m.

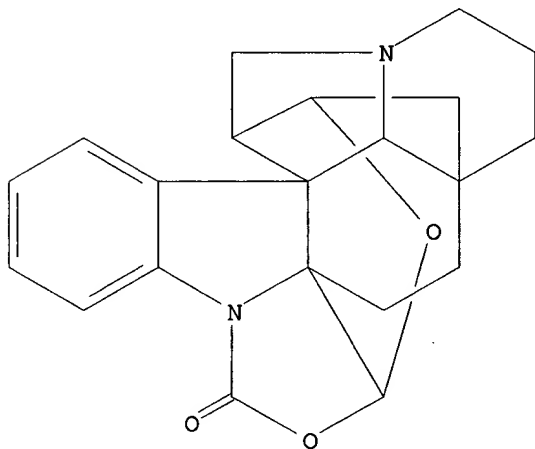
225-7.degree., 238.degree. (Me2CO-Et2O-hexane), and 3 mg. IX, m. 175-9.degree. (Et2O). IX was converted in 95% yield to VIII upon heating 0.5 hr. at 160.degree. in vacuo. A mixt. of 50 mg. VII, 2 g. Zn dust, and 10 ml. 9:1 MeOH-concd. H2SO4 refluxed 3 hrs. gave 49 mg. dihydroisokopsine (X), m. 173.degree. (Et2O) (CA 59, 684a). A soln. of 20 mg. X in 10 ml. tetrahydrofuran was refluxed 1 hr. with excess LiAlH4 to give 9 mg. N-methyldecarbomethoxydihydroisokopsine, m. 158-60.degree. (Et2O-hexane). For the synthesis of II, kopsine was converted to isokopsine (XI) according to the method of Govindachari, et al. (loc. cit.). A soln. of 54 mg. XI in 10 ml. 2N H2SO4 was mixed with 45 mg. KIO4, kept 2 hrs. at 20.degree., and the crude product (45 mg.) esterified with HCl-MeOH to give 22 mg. VII. A soln. of 92 mg. X in 10 ml. abs. C5H5N was treated with a soln. of 200 mg. Pb(OAc)4 in 15 ml. C5H5N and kept 25 hrs. at 20.degree. to give 67 mg. XII, m. 196-202.degree.. XII was converted to II in 86-90% yield by treatment with NaOMe-MeOH at 20.degree. or with 2N HCl at 100.degree. in a sealed tube. Ir, uv, N.M.R., and mass spectra are tabulated or presented graphically for all compds. described, and the N.M.R. and mass spectra are discussed in detail. 20 references.

IT 14051-16-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 14051-16-2 CAPLUS

CN 6aH,10H-6b,9-Ethano-9,13,14b-metheno-5H-6,7-dioxo-4b,13-diazacyclonona[c]cyclopenta[lm]fluoren-5-one, 7a,8,11,12,14,14a-hexahydro-, stereoisomer (8CI) (CA INDEX NAME)



=> fil reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
102.18	775.92

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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Examiner Anderson 703-605-1157

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DICTIONARY FILE UPDATES: 16 DEC 2001 HIGHEST RN 375793-75-2

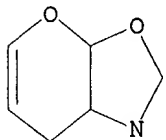
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Crossover limits have been increased. See HELP CROSSOVER for details.

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Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d l7
L7 HAS NO ANSWERS
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Structure attributes must be viewed using STN Express query preparation.

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.27	781.19

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-14.70

STN INTERNATIONAL LOGOFF AT 08:05:00 ON 17 DEC 2001